

updated 05/20/02

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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * * * * * * Welcome to STN International * * * * * * * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web
NEWS 3 Jan 29 FSTA has been reloaded and moves to weekly updates
NEWS 4 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update frequency
NEWS 5 Feb 19 Access via Tymnet and SprintNet Eliminated Effective 3/31/02
NEWS 6 Mar 08 Gene Names now available in BIOSIS
NEWS 7 Mar 22 TOXLIT no longer available
NEWS 8 Mar 22 TRCTHERMO no longer available
NEWS 9 Mar 28 US Provisional Priorities searched with P in CA/CAplus and USPATFULL
NEWS 10 Mar 28 LIPINSKI/CALC added for property searching in REGISTRY
NEWS 11 Apr 02 PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead.
NEWS 12 Apr 08 "Ask CAS" for self-help around the clock
NEWS 13 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 14 Apr 09 ZDB will be removed from STN
NEWS 15 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and
IFIUDB
NEWS 16 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and
ZCAPLUS
NEWS 17 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 18 Apr 22 Federal Research in Progress (FEDRIP) now available

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),
AND CURRENT DISCOVER FILE IS DATED 05.FEBRUARY 2002
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 15:24:41 ON 20 MAY 2002

=> .fil req

19

| | | |
|----------------------|------------------|--------------|
| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL |
| FULL ESTIMATED COST | 0.21 | SESSION 0.21 |

FILE 'REGISTRY' ENTERED AT 15:24:49 ON 20 MAY 2002
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STRUCTURE FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2
 DICTIONARY FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

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Calculated physical property data is now available. See HELP PROPERTIES
 for more information. See STNote 27, Searching Properties in the CAS
 Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 963

L1 SCREEN CREATED

=>
 Uploading C:\STNEXP4\QUERIES\8.str

L2 STRUCTURE UPLOADED

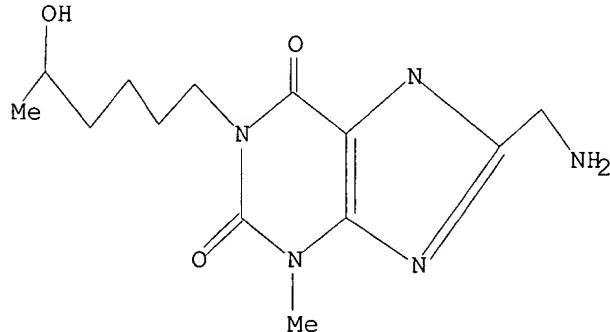
=> que L2 AND L1

L3 QUE L2 AND L1

=> d 12

L2 HAS NO ANSWERS

L2 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 12
SAMPLE SEARCH INITIATED 15:25:48 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

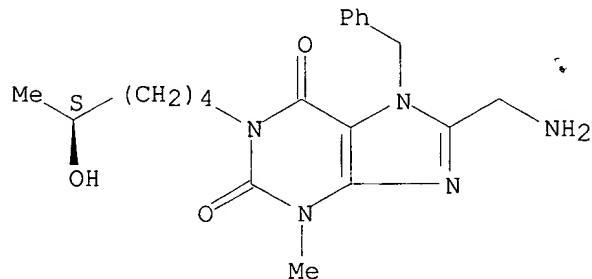
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4 TO 200
PROJECTED ANSWERS: 1 TO 80

L4 1 SEA SSS SAM L2

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 301329-35-1 REGISTRY
CN 1H-Purine-2,6-dione,
8-(aminomethyl)-3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-3-
methyl-7-(phenylmethyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C20 H27 N5 O3
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s 12 full
FULL SEARCH INITIATED 15:27:12 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 68 TO ITERATE

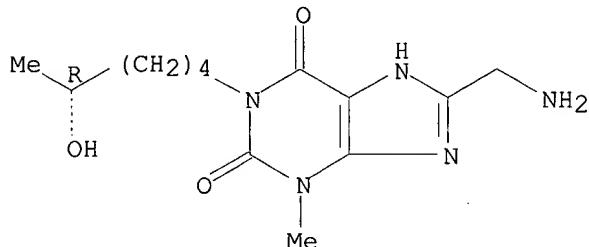
100.0% PROCESSED 68 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

L5 4 SEA SSS FUL L2

=> d 15 1-4

L5 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2002 ACS
 RN 403477-24-7 REGISTRY
 CN 1H-Purine-2,6-dione,
 8-(aminomethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-
 methyl-, monohydrochloride (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C13 H21 N5 O3 . Cl H
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL
 CRN (301536-55-0)

Absolute stereochemistry.

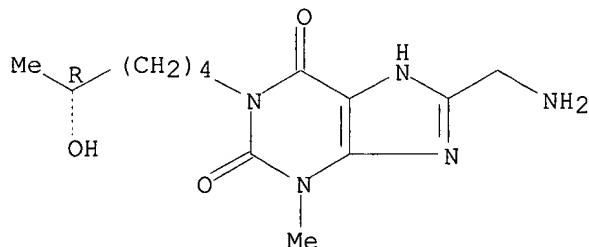


● HCl

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L5 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2002 ACS
 RN 301536-55-0 REGISTRY
 CN 1H-Purine-2,6-dione,
 8-(aminomethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-
 methyl- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN CT 12440
 FS STEREOSEARCH
 MF C13 H21 N5 O3
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

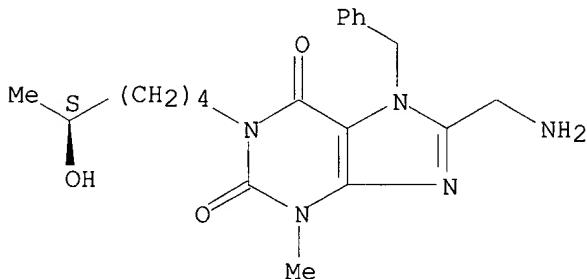


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L5 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2002 ACS
RN 301329-35-1 REGISTRY
CN 1H-Purine-2,6-dione,
8-(aminomethyl)-3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-3-
methyl-7-(phenylmethyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C20 H27 N5 O3
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

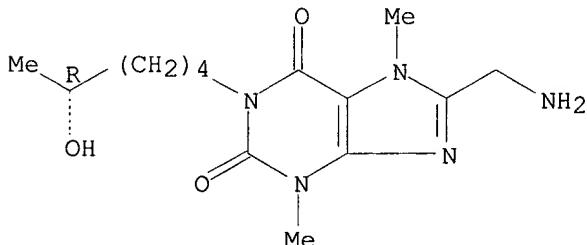


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L5 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2002 ACS
RN 301328-82-5 REGISTRY
CN 1H-Purine-2,6-dione, 8-(aminomethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-
3,7-dimethyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 8-(Aminomethyl)-1-[(R)-5-Hydroxyhexyl]-3,7-dimethylxanthine
FS STEREOSEARCH
MF C14 H23 N5 O3
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> file caplus

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 152.36 | 152.57 |

FILE 'CAPLUS' ENTERED AT 15:31:46 ON 20 MAY 2002
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FILE COVERS 1907 - 20 May 2002 VOL 136 ISS 21
FILE LAST UPDATED: 19 May 2002 (20020519/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s 403477-24-7/rn
1 403477-24-7
0 403477-24-7D
L6 1 403477-24-7/RN
(403477-24-7 (NOTL) 403477-24-7D)

=> d

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN 2002:172492 CAPLUS
DN 136:232165
TI Preparation of xanthine derivatives and analogs as cell signaling inhibitors
IN Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing
PA USA
SO U.S. Pat. Appl. Publ., 143 pp., Cont.-in-part of U. S. Ser. No. 8,020,
abandoned.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 8
PATENT NO. KIND DATE APPLICATION NO. DATE

| | | | | | |
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| PI | US 2002028823 | A1 | 20020307 | US 1999-288556 | 19990409 |
| | WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |
| | W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | EP 1171442 | A1 | 20020116 | EP 2000-921774 | 20000407 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| PRAI | US 1998-8020 | B2 | 19980116 | | |
| | US 1995-483871 | A2 | 19950607 | | |
| | US 1995-486264 | A2 | 19950607 | | |
| | US 1999-288556 | A2 | 19990409 | | |
| | WO 2000-US9139 | W | 20000407 | | |
| OS | MARPAT 136:232165 | | | | |

=> s 301536-55-0/rn
 2 301536-55-0
 0 301536-55-0D
 L7 2 301536-55-0/RN
 (301536-55-0 (NOTL) 301536-55-0D)

=> d

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
 AN 2002:172492 CAPLUS
 DN 136:232165
 TI Preparation of xanthine derivatives and analogs as cell signaling inhibitors
 IN Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing
 PA USA
 SO U.S. Pat. Appl. Publ., 143 pp., Cont.-in-part of U. S. Ser. No. 8,020, abandoned.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 8

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | US 2002028823 | A1 | 20020307 | US 1999-288556 | 19990409 |
| | WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |
| | W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | EP 1171442 | A1 | 20020116 | EP 2000-921774 | 20000407 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |

PRAI US 1998-8020 B2 19980116
US 1995-483871 A2 19950607
US 1995-486264 A2 19950607
US 1999-288556 A2 19990409
WO 2000-US9139 W 20000407
OS MARPAT 136:232165

=> d 2

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS
AN 2000:742096 CAPLUS
DN 133:296325
TI Preparation of xanthine derivatives and analogs as cell signaling
inhibitors
IN Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing
PA Cell Therapeutics, Inc., USA
SO PCT Int. Appl., 146 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 8

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|---|----------|-----------------|----------|
| PI | WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |
| | W: | AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | RW: | GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| | US 6100271 | A | 20000808 | US 1995-483871 | 19950607 |
| | US 6103730 | A | 20000815 | US 1995-486264 | 19950607 |
| | US 2002028823 | A1 | 20020307 | US 1999-288556 | 19990409 |
| | EP 1171442 | A1 | 20020116 | EP 2000-921774 | 20000407 |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO | | | |
| PRAI | US 1995-483871 | A2 | 19950607 | | |
| | US 1995-486264 | A2 | 19950607 | | |
| | US 1999-288556 | A2 | 19990409 | | |
| | US 1994-199368 | B2 | 19940218 | | |
| | US 1994-217051 | B1 | 19940324 | | |
| | US 1998-8020 | B2 | 19980116 | | |
| | WO 2000-US9139 | W | 20000407 | | |

OS MARPAT 133:296325

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 301328-82-5/rn

1 301328-82-5
1 301328-82-5D

L8 0 301328-82-5/RN
(301328-82-5 (NOTL) 301328-82-5D)

=>Testing the current file.... screen

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Please change to a suitable file and repeat your upload

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

| | | | |
|----------------------|--|------------|---------|
| => fil reg | | SINCE FILE | TOTAL |
| COST IN U.S. DOLLARS | | ENTRY | SESSION |
| FULL ESTIMATED COST | | 15.80 | 168.37 |

FILE 'REGISTRY' ENTERED AT 15:36:23 ON 20 MAY 2002
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DICTIONARY FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2

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Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 963

L9 SCREEN CREATED

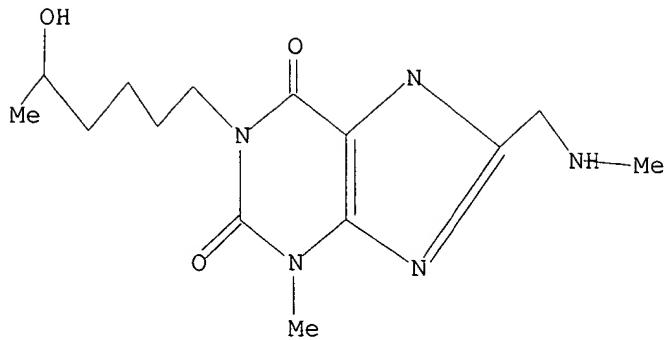
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Uploading C:\STNEXP4\QUERIES\9.str

L10 STRUCTURE uploaded

=> que L10 AND L9

L11 QUE L10 AND L9

=> d 111
L11 HAS NO ANSWERS
L9 SCR 963
L10 STR



Structure attributes must be viewed using STN Express query preparation.
L11 QUE ABB=ON PLU=ON L10 AND L9

=> s 111
SAMPLE SEARCH INITIATED 15:36:47 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

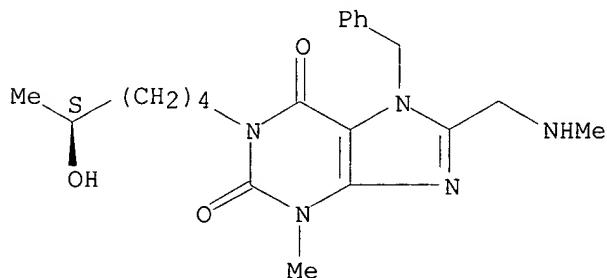
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|------------------------|--------|--------------|
| FULL FILE PROJECTIONS: | ONLINE | **COMPLETE** |
| | BATCH | **COMPLETE** |
| PROJECTED ITERATIONS: | 4 TO | 200 |
| PROJECTED ANSWERS: | 1 TO | 80 |

L12 1 SEA SSS SAM L10 AND L9

=> d 112

L12 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 301329-11-3 REGISTRY
CN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-3-methyl-8-[(methylamino)methyl]-7-(phenylmethyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H29 N5 O3
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s 111 full
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FULL SCREEN SEARCH COMPLETED - 61 TO ITERATE

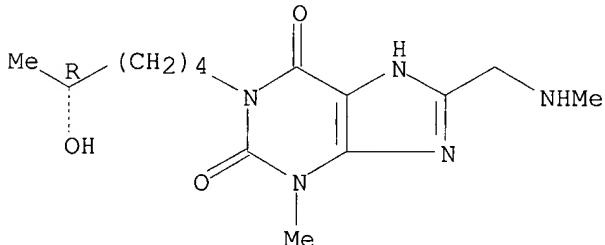
100.0% PROCESSED 61 ITERATIONS 2 ANSWERS
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=> d 113

L13 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2002 ACS
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CN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl-8-
[(methylamino)methyl]-(9CI) (CA INDEX NAME)
OTHER NAMES:
CN CT 12441
FS STEREOSEARCH
MF C14 H23 N5 O3
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

| | SINCE FILE | TOTAL |
|----------------------|------------|---------|
| | ENTRY | SESSION |
| COST IN U.S. DOLLARS | | |
| FULL ESTIMATED COST | 144.20 | 312.57 |

FILE 'CAPLUS' ENTERED AT 15:38:09 ON 20 MAY 2002
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FILE 'USPATFULL' ENTERED AT 15:38:09 ON 20 MAY 2002
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FILE 'MEDLINE' ENTERED AT 15:38:09 ON 20 MAY 2002

=> s 301536-56-1/rn
'RN' IS NOT A VALID FIELD CODE
L14 3 301536-56-1/RN

=> d 114

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN 2002:172492 CAPLUS
DN 136:232165
TI Preparation of xanthine derivatives and analogs as cell signaling
inhibitors
IN Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing
PA USA
SO U.S. Pat. Appl. Publ., 143 pp., Cont.-in-part of U. S. Ser. No. 8,020,
abandoned.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 8

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------------|----------|-----------------|----------|
| PI US 2002028823 | A1 | 20020307 | US 1999-288556 | 19990409 |
| WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |
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CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| EP 1171442 | A1 | 20020116 | EP 2000-921774 | 20000407 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO | | | | |
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| US 1995-483871 | A2 | 19950607 | | |
| US 1995-486264 | A2 | 19950607 | | |
| US 1999-288556 | A2 | 19990409 | | |
| WO 2000-US9139 | W | 20000407 | | |
| OS MARPAT | 136:232165 | | | |

=> d 2-3

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN 2000:742096 CAPLUS
DN 133:296325
TI Preparation of xanthine derivatives and analogs as cell signaling
inhibitors
IN Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing
PA Cell Therapeutics, Inc., USA
SO PCT Int. Appl., 146 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 8

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

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| PI | WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |
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| | US 6100271 | A | 20000808 | US 1995-483871 | 19950607 |
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| PRAI | US 1995-483871 | A2 | 19950607 | | |
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| | US 1999-288556 | A2 | 19990409 | | |
| | US 1994-199368 | B2 | 19940218 | | |
| | US 1994-217051 | B1 | 19940324 | | |
| | US 1998-8020 | B2 | 19980116 | | |
| | WO 2000-US9139 | W | 20000407 | | |

OS MARPAT 133:296325

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 3 USPATFULL
AN 2002:48631 USPATFULL
TI THERAPEUTIC COMPOUNDS FOR INHIBITING INTERLEUKIN-12 SIGNALING AND METHODS FOR USING SAME
IN KLEIN, J. PETER, VASHON, WA, UNITED STATES
KLAUS, STEPHEN J., SEATTLE, WA, UNITED STATES
KUMAR, ANIL M., MERCER ISLAND, WA, UNITED STATES
GONG, BAOQING, SHORELINE, WA, UNITED STATES
PI US 2002028823 A1 20020307
AI US 1999-288556 A1 19990409 (9)
RLI Continuation-in-part of Ser. No. US 1998-8020, filed on 16 Jan 1998, ABANDONED
DT Utility
FS APPLICATION
LN.CNT 4381
INCL INCLM: 514/263.000
NCL NCLM: 514/263.000
IC [7]
ICM: A61K031-52
ICS: A61K031-47
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 9.98 | 322.55 |

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STRUCTURE FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2
DICTIONARY FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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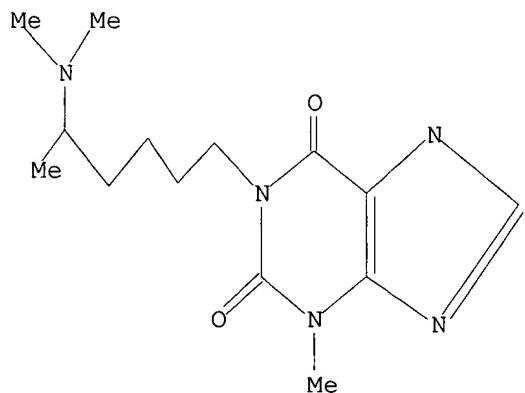
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L16 STRUCTURE UPLOADED

=> que L16 AND L15

L17 QUE L16 AND L15

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L17 HAS NO ANSWERS
L15 SCR 963
L16 STR



Structure attributes must be viewed using STN Express query preparation.
L17 QUE ABB=ON PLU=ON L16 AND L15

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SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS
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BATCH **COMPLETE**
PROJECTED ITERATIONS: 1 TO 80
PROJECTED ANSWERS: 0 TO 0

L18 0 SEA SSS SAM L16

=> s 115 full
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FULL SCREEN SEARCH COMPLETED 400000 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.03

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PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: EXCEEDS 1000000

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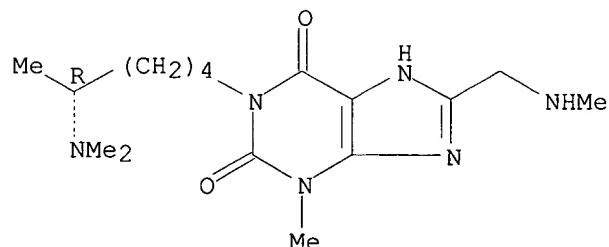
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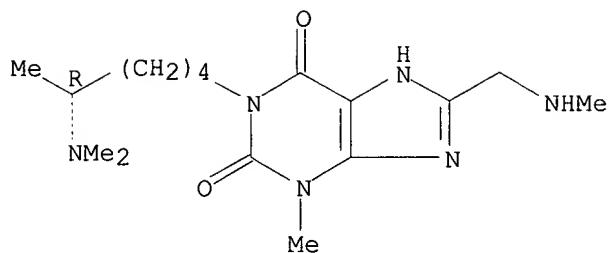
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L20 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2002 ACS
RN 301536-73-2 REGISTRY
CN 1H-Purine-2,6-dione,
1-[(5R)-5-(dimethylamino)hexyl]-3,7-dihydro-3-methyl-
8-[(methylamino)methyl]-(9CI) (CA INDEX NAME)
OTHER NAMES:
CN CT 30274
FS STEREOSEARCH
MF C16 H28 N6 O2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.





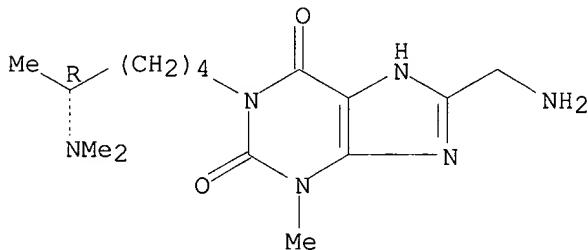
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 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d 2-6

L20 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2002 ACS
 RN 301536-72-1 REGISTRY
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 SR CA
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Absolute stereochemistry.

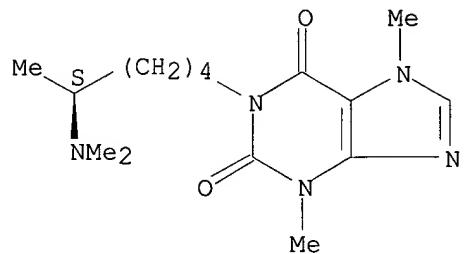


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L20 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2002 ACS
 RN 301534-50-9 REGISTRY
 CN 1H-Purine-2,6-dione, 1-[(5S)-5-(dimethylamino)hexyl]-3,7-dihydro-3,7-dimethyl- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN CT 21558
 FS STEREOSEARCH
 MF C15 H25 N5 O2
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L20 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2002 ACS

RN 301534-49-6 REGISTRY

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OTHER NAMES:

CN CT 11558

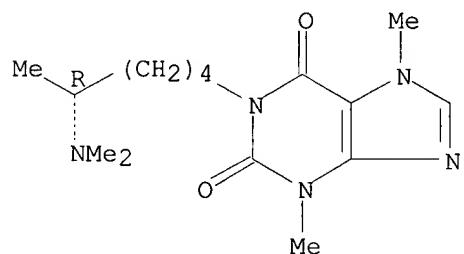
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MF C15 H25 N5 O2

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L20 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2002 ACS

RN 301329-42-0 REGISTRY

CN Carbamic acid, [(1-[(5R)-5-(dimethylamino)hexyl]-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-8-yl)methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

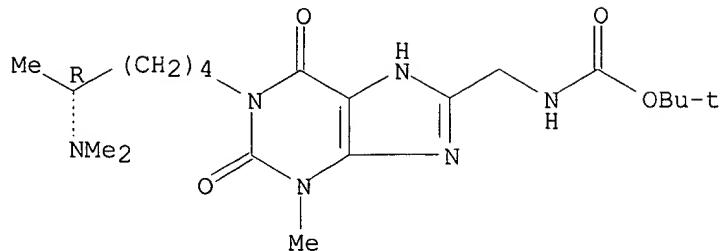
FS STEREOSEARCH

MF C20 H34 N6 O4

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L20 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2002 ACS

RN 157523-29-0 REGISTRY

CN 1H-Purine-2,6-dione, 1-[5-(dimethylamino)hexyl]-3,7-dihydro-3,7-dimethyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Purine-2,6-dione,
1-[5-(dimethylamino)hexyl]-3,7-dihydro-3,7-dimethyl-,
(.+-.)-

OTHER NAMES:

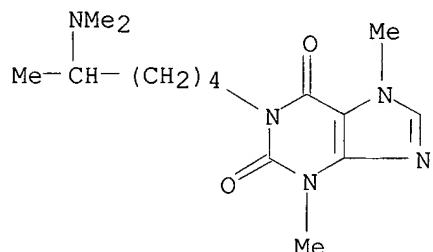
CN (.+-.)-1-[(5-(Dimethylamino)hexyl]-3,7-dimethylxanthine

FS 3D CONCORD

MF C15 H25 N5 O2

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE
ENTRY

302.58

TOTAL
SESSION
625.13

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FILE COVERS 1907 - 20 May 2002 VOL 136 ISS 21
FILE LAST UPDATED: 19 May 2002 (20020519/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

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      0 301534-49-6D
L21      1 301534-49-6/RN
          (301534-49-6 (NOTL) 301534-49-6D )
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L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN 2000:742096 CAPLUS
DN 133:296325
TI Preparation of xanthine derivatives and analogs as cell signaling
inhibitors
IN Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing
PA Cell Therapeutics, Inc., USA
SO PCT Int. Appl., 146 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 8
  PATENT NO.      KIND   DATE           APPLICATION NO.    DATE
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PI  WO 2000061583     A1  20001019        WO 2000-US9139  20000407
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       MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
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       CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
US 6100271         A   20000808        US 1995-483871  19950607
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| US 2002028823 | A1 | 20020307 | US 1999-288556 | 19990409 |
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| US 1994-199368 | B2 | 19940218 | | |
| US 1994-217051 | B1 | 19940324 | | |
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| WO 2000-US9139 | W | 20000407 | | |
| OS MARPAT | 133:296325 | | | |
| RE.CNT 6 | THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT | | | |

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0 301534-50-9D

L22 1 301534-50-9/RN
(301534-50-9 (NOTL) 301534-50-9D)

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L22 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN 2000:742096 CAPLUS
DN 133:296325
TI Preparation of xanthine derivatives and analogs as cell signaling
inhibitors
IN Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing
PA Cell Therapeutics, Inc., USA
SO PCT Int. Appl., 146 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 8

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|--|----------|----------|-----------------|----------|
| PI | WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |
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IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
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| | RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
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| | US 2002028823 | A1 | 20020307 | US 1999-288556 | 19990409 |
| | EP 1171442 | A1 | 20020116 | EP 2000-921774 | 20000407 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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| US 1994-199368 | B2 | 19940218 | | | |
| US 1994-217051 | B1 | 19940324 | | | |
| US 1998-8020 | B2 | 19980116 | | | |

WO 2000-US9139 W 20000407
OS MARPAT 133:296325
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L23 1 301536-72-1/RN
(301536-72-1 (NOTL) 301536-72-1D)

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L23 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN 2000:742096 CAPLUS
DN 133:296325
TI Preparation of xanthine derivatives and analogs as cell signaling
inhibitors
IN Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing
PA Cell Therapeutics, Inc., USA
SO PCT Int. Appl., 146 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 8

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |
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| | US 6103730 | A | 20000815 | US 1995-486264 | 19950607 |
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| | US 1998-8020 | B2 | 19980116 | | |
| | WO 2000-US9139 | W | 20000407 | | |
| OS | MARPAT 133:296325 | | | | |

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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0 157523-29-3D
L24 0 157523-29-3/RN

(157523-29-3 (NOTL) 157523-29-3D)

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SESSION |
|------------------------------------|---------------------|------------------|
| FULL ESTIMATED COST | 18.66 | 643.79 |

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DICTIONARY FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

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conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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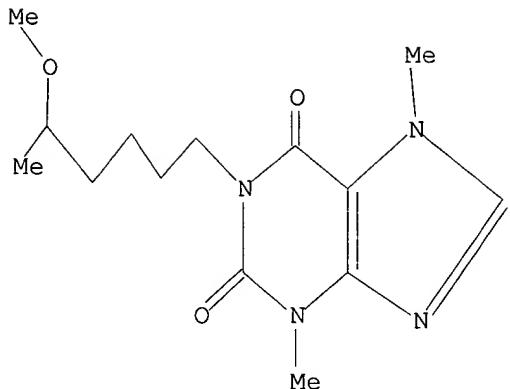
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=> que L26 AND L25

L27 QUE L26 AND L25

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L27 HAS NO ANSWERS
L25 SCR 963
L26 STR



Structure attributes must be viewed using STN Express query preparation.
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=> fil caplus uspatfull medline
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
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FILE 'USPATFULL' ENTERED AT 16:08:18 ON 20 MAY 2002
 CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'MEDLINE' ENTERED AT 16:08:18 ON 20 MAY 2002

=> s 125
 SUBSTANCE QUERIES NOT VALID IN THIS FILE
 SUBSTANCE QUERIES NOT VALID IN THIS FILE
 SUBSTANCE QUERIES NOT VALID IN THIS FILE
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 SUBSTANCE QUERIES NOT VALID IN THIS FILE
 SUBSTANCE QUERIES NOT VALID IN THIS FILE
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=> s 126
SUBSTANCE QUERIES NOT VALID IN THIS FILE
SUBSTANCE QUERIES NOT VALID IN THIS FILE
SUBSTANCE QUERIES NOT VALID IN THIS FILE
The logic expression entered contains L#s or saved query names which
correspond to structures built by the STRUCTURE command or to screen
sets. These must be searched in a substance file such as the REGISTRY
file. In some files you may use a Registry Number answer set from a
structure search as a search term or profile in some bibliographic
file containing Registry Numbers, e.g. the CA file. For an
explanation, enter "HELP CROSSOVER" at an arrow prompt (>).
```

```
=> fil reg
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY           SESSION
FULL ESTIMATED COST          1.99            646.92
```

```
FILE 'REGISTRY' ENTERED AT 16:09:02 ON 20 MAY 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 American Chemical Society (ACS)
```

```
STRUCTURE FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2
DICTIONARY FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2
```

```
TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001
```

```
Please note that search-term pricing does apply when
conducting SmartSELECT searches.
```

```
Crossover limits have been increased. See HELP CROSSOVER for details.
```

```
Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf
```

```
=> s 126
SAMPLE SEARCH INITIATED 16:09:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      57 TO ITERATE

100.0% PROCESSED      57 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       688 TO      1592
PROJECTED ANSWERS:          0 TO        0

L28          0 SEA SSS SAM L26
```

```
=> s 127
SAMPLE SEARCH INITIATED 16:09:15 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      42 TO ITERATE

100.0% PROCESSED      42 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
```

PROJECTED ITERATIONS: 452 TO 1228
PROJECTED ANSWERS: 0 TO 0

L29 0 SEA SSS SAM L26 AND L25

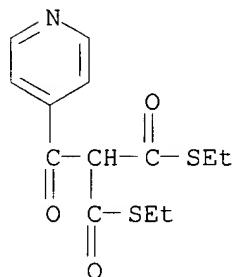
=> s 125
SAMPLE SEARCH INITIATED 16:09:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: EXCEEDS 1000000

L30 50 SEA SSS SAM L25

=> d 130 49-50

L30 ANSWER 49 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 39503-06-5 REGISTRY
CN Propanebis(thioic) acid, (4-pyridinylcarbonyl)-, S,S-diethyl ester (9CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C13 H15 N O3 S2
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

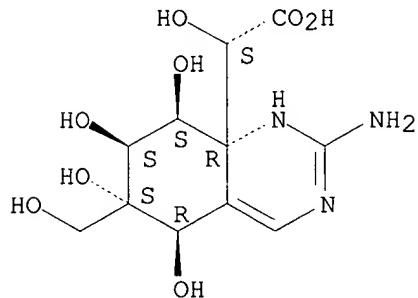
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L30 ANSWER 50 OF 50 REGISTRY COPYRIGHT 2002 ACS
RN 31019-14-4 REGISTRY
CN 8a(1H)-Quinazolineacetic acid, 2,3,5,6,7,8-hexahydro-.alpha.,5,6,7,8-pentahydroxy-6-(hydroxymethyl)-2-imino-, monoacetate (ester), (5.alpha.,6.beta.,7.alpha.,8.alpha.,8a.alpha.)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Tetrodoic acid, anhydro-, acetate (7CI)
FS STEREOSEARCH
DR 31229-81-9
MF C13 H19 N3 O9
CI IDS
LC STN Files: CAOLD

CM 1

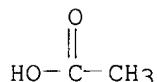
CRN 4841-52-5
CMF C11 H17 N3 O8

Absolute stereochemistry.



CM 2

CRN 64-19-7
CMF C2 H4 O2



1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 963

L31 SCREEN CREATED

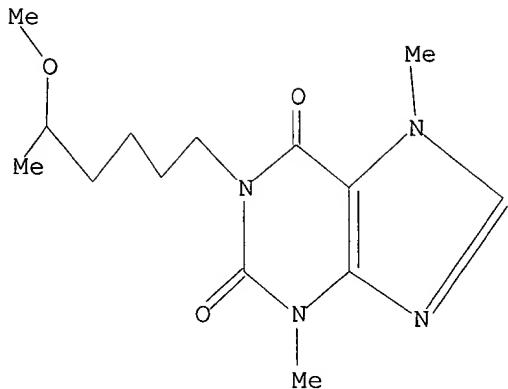
=>
Uploading C:\STNEXP4\QUERIES\12.str

L32 STRUCTURE UPLOADED

=> que L32 AND L31

L33 QUE L32 AND L31

=> d 133
L33 HAS NO ANSWERS
L31 SCR 963
L32 STR



Structure attributes must be viewed using STN Express query preparation.
L33 QUE ABB=ON PLU=ON L32 AND L31

=> s 133
SAMPLE SEARCH INITIATED 16:10:41 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 42 TO ITERATE

100.0% PROCESSED 42 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

| | | |
|------------------------|--------|--------------|
| FULL FILE PROJECTIONS: | ONLINE | **COMPLETE** |
| | BATCH | **COMPLETE** |
| PROJECTED ITERATIONS: | 452 TO | 1228 |
| PROJECTED ANSWERS: | 0 TO | 0 |

L34 0 SEA SSS SAM L32 AND L31

```
=> s 133 full
FULL SEARCH INITIATED 16:10:52 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    726 TO ITERATE
```

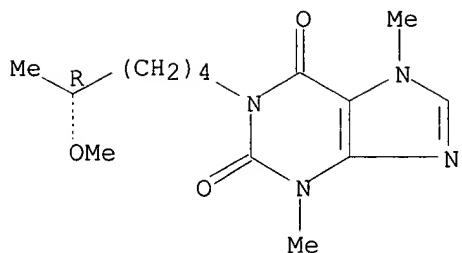
100.0% PROCESSED 726 ITERATIONS 2 ANSWERS
SEARCH TIME: 00:00:01

L35 2 SEA SSS FUT L32 AND L31

=> d 135

L35 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2002 ACS
RN 301536-20-9 REGISTRY
CN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-methoxyhexyl]-3,7-dimethyl-
(9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1-[(R)-5-Methoxyhexyl]-3,7-dimethylxanthine
FS STEREOSEARCH
MF C14 H22 N4 O3
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

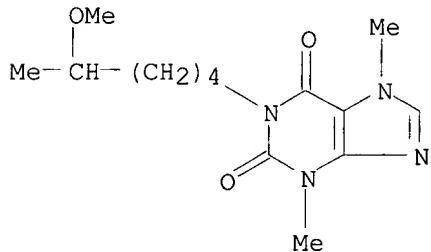


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d 2

L35 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2002 ACS
RN 117835-17-3 REGISTRY
CN 1H-Purine-2,6-dione, 3,7-dihydro-1-(5-methoxyhexyl)-3,7-dimethyl- (9CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C14 H22 N4 O3
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

| | | |
|----------------------|------------|---------|
| => file caplus | SINCE FILE | TOTAL |
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 148.12 | 795.04 |

FILE 'CAPLUS' ENTERED AT 16:11:59 ON 20 MAY 2002
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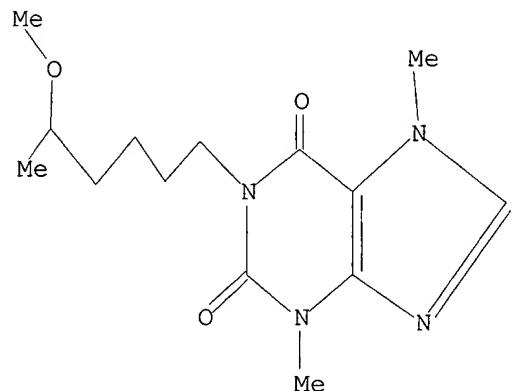
FILE COVERS 1907 - 20 May 2002 VOL 136 ISS 21
FILE LAST UPDATED: 19 May 2002 (20020519/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

```
=> s 301536-20-9/rn
      1 301536-20-9
      0 301536-20-9D
L36          1 301536-20-9/RN
                  (301536-20-9 (NOTL) 301536-20-9D )
```

```
=> d 126
L26 HAS NO ANSWERS
L26          STR
```



Structure attributes must be viewed using STN Express query preparation.

```
=> d 136
L36  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2002 ACS
AN  2000:742096  CAPLUS
DN  133:296325
TI  Preparation of xanthine derivatives and analogs as cell signaling
    inhibitors
IN  Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing
PA  Cell Therapeutics, Inc., USA
```

SO PCT Int. Appl., 146 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 8

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |
| | W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | US 6100271 | A | 20000808 | US 1995-483871 | 19950607 |
| | US 6103730 | A | 20000815 | US 1995-486264 | 19950607 |
| | US 2002028823 | A1 | 20020307 | US 1999-288556 | 19990409 |
| | EP 1171442 | A1 | 20020116 | EP 2000-921774 | 20000407 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| PRAI | US 1995-483871 | A2 | 19950607 | | |
| | US 1995-486264 | A2 | 19950607 | | |
| | US 1999-288556 | A2 | 19990409 | | |
| | US 1994-199368 | B2 | 19940218 | | |
| | US 1994-217051 | B1 | 19940324 | | |
| | US 1998-8020 | B2 | 19980116 | | |
| | WO 2000-US9139 | W | 20000407 | | |

OS MARPAT 133:296325

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>Testing the current file.... screen

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Please change to a suitable file and repeat your upload

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (>) for a list of commands which can be used in this file.

=> fil reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 5.79 | 800.83 |

FILE 'REGISTRY' ENTERED AT 16:14:37 ON 20 MAY 2002
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STRUCTURE FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2
DICTIONARY FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 963

L37 SCREEN CREATED

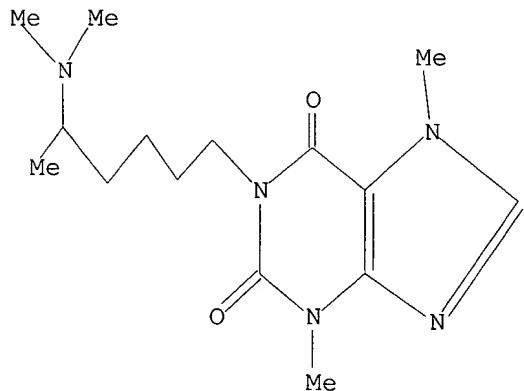
=>
Uploading C:\STNEXP4\QUERIES\10.str

L38 STRUCTURE UPLOADED

=> que L38 AND L37

L39 QUE L38 AND L37

=> d 139
L39 HAS NO ANSWERS
L37 SCR 963
L38 STR



Structure attributes must be viewed using STN Express query preparation.
L39 QUE ABB=ON PLU=ON L38 AND L37

=> s 139
SAMPLE SEARCH INITIATED 16:15:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 16 TO ITERATE

100.0% PROCESSED 16 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 80 TO 560
PROJECTED ANSWERS: 0 TO 0

L40 0 SEA SSS SAM L38 AND L37

=> s 139 full
FULL SEARCH INITIATED 16:15:37 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 310 TO ITERATE

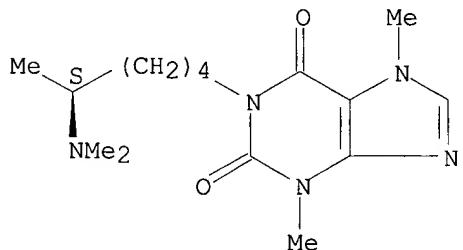
100.0% PROCESSED 310 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

L41 3 SEA SSS FUL L38 AND L37

=> d 141

L41 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2002 ACS
RN 301534-50-9 REGISTRY
CN 1H-Purine-2,6-dione, 1-[(5S)-5-(dimethylamino)hexyl]-3,7-dihydro-3,7-dimethyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN CT 21558
FS STEREOSEARCH
MF C15 H25 N5 O2
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

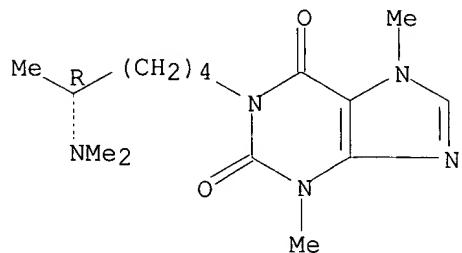
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d 2-3

L41 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2002 ACS
RN 301534-49-6 REGISTRY
CN 1H-Purine-2,6-dione, 1-[(5R)-5-(dimethylamino)hexyl]-3,7-dihydro-3,7-dimethyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN CT 11558
FS STEREOSEARCH

MF C15 H25 N5 O2
SR CA
LC STN Files: CA, CAPLUS

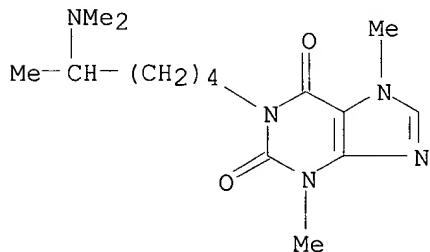
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L41 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2002 ACS
RN 157523-29-0 REGISTRY
CN 1H-Purine-2,6-dione, 1-[5-(dimethylamino)hexyl]-3,7-dihydro-3,7-dimethyl-
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1H-Purine-2,6-dione,
1-[5-(dimethylamino)hexyl]-3,7-dihydro-3,7-dimethyl-,
(.+-.)-
OTHER NAMES:
CN (.+-.)-1-[(5-(Dimethylamino)hexyl]-3,7-dimethylxanthine
FS 3D CONCORD
MF C15 H25 N5 O2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION

FULL ESTIMATED COST 145.78 946.61

FILE 'CAPLUS' ENTERED AT 16:16:08 ON 20 MAY 2002
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FILE COVERS 1907 - 20 May 2002 VOL 136 ISS 21
FILE LAST UPDATED: 19 May 2002 (20020519/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

```
=> s 301534-50-9/rn
      1 301534-50-9
      0 301534-50-9D
L42      1 301534-50-9/RN
          (301534-50-9 (NOTL) 301534-50-9D )
```

```
=> d 142
```

```
L42 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN 2000:742096 CAPLUS
DN 133:296325
TI Preparation of xanthine derivatives and analogs as cell signaling
inhibitors
IN Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing
PA Cell Therapeutics, Inc., USA
SO PCT Int. Appl., 146 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 8
```

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------|--|----------|-----------------|----------|
| PI WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |
| W: | AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| RW: | GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, | | | |

CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 US 6100271 A 20000808 US 1995-483871 19950607
 US 6103730 A 20000815 US 1995-486264 19950607
 US 2002028823 A1 20020307 US 1999-288556 19990409
 EP 1171442 A1 20020116 EP 2000-921774 20000407
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO
 PRAI US 1995-483871 A2 19950607
 US 1995-486264 A2 19950607
 US 1999-288556 A2 19990409
 US 1994-199368 B2 19940218
 US 1994-217051 B1 19940324
 US 1998-8020 B2 19980116
 WO 2000-US9139 W 20000407
 OS MARPAT 133:296325
 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 301534-49-6/rn
 1 301534-49-6
 0 301534-49-6D
 L43 1 301534-49-6/RN
 (301534-49-6 (NOTL) 301534-49-6D)

=> d 143

L43 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
 AN 2000:742096 CAPLUS
 DN 133:296325
 TI Preparation of xanthine derivatives and analogs as cell signaling
 inhibitors
 IN Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing
 PA Cell Therapeutics, Inc., USA
 SO PCT Int. Appl., 146 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 8

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|---|----------|-----------------|----------|
| PI | WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |
| | W: | AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | RW: | GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| | US 6100271 | A | 20000808 | US 1995-483871 | 19950607 |
| | US 6103730 | A | 20000815 | US 1995-486264 | 19950607 |
| | US 2002028823 | A1 | 20020307 | US 1999-288556 | 19990409 |
| | EP 1171442 | A1 | 20020116 | EP 2000-921774 | 20000407 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO | | | | |
| PRAI | US 1995-483871 | A2 | 19950607 | | |
| | US 1995-486264 | A2 | 19950607 | | |
| | US 1999-288556 | A2 | 19990409 | | |

US 1994-199368 B2 19940218
US 1994-217051 B1 19940324
US 1998-8020 B2 19980116
WO 2000-US9139 W 20000407
OS MARPAT 133:296325
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 157523-29-0/rn
2 157523-29-0
0 157523-29-0D
L44 2 157523-29-0/RN
(157523-29-0 (NOTL) 157523-29-0D)

=> d 144

L44 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS
AN 1998:604658 CAPLUS
DN 129:239905
TI Amine-substituted xanthinyl compounds, their preparation, and use for treatment of diseases caused by an undesirable cell response mediated by
a proliferative intracellular signaling pathway
IN Klein, J. Peter; Underiner, Gail E.; Kumar, Anil M.; Ridgers, Lance H.; Rice, Glenn C.; Leung, David W.
PA Cell Therapeutics, Inc., USA
SO U.S., 51 pp., Cont.-in-part of U.S. Ser. No. 217,051, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 8
PATENT NO. KIND DATE APPLICATION NO. DATE
----- -----
PI US 5807861 A 19980915 US 1995-476911 19950607
PRAI US 1994-217051 B2 19940324
OS MARPAT 129:239905

=>

=> fil reg
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 21.74 968.35

FILE 'REGISTRY' ENTERED AT 16:29:45 ON 20 MAY 2002
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STRUCTURE FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2
DICTIONARY FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 963

L45 SCREEN CREATED

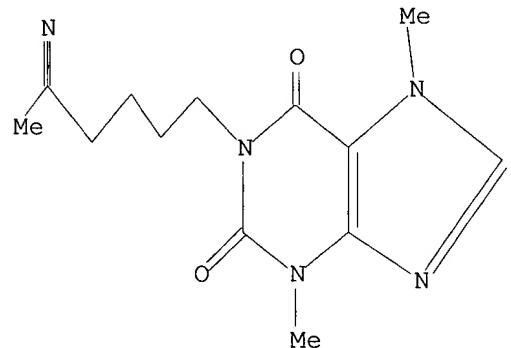
=>
Uploading C:\STNEXP4\QUERIES\13.str

L46 STRUCTURE UPLOADED

=> que L46 AND L45

L47 QUE L46 AND L45

=> d 147
L47 HAS NO ANSWERS
L45 SCR 963
L46 STR



Structure attributes must be viewed using STN Express query preparation.
L47 QUE ABB=ON PLU=ON L46 AND L45

=> s 147
SAMPLE SEARCH INITIATED 16:30:33 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 3 TO 163
PROJECTED ANSWERS: 0 TO 0

L48 0 SEA SSS SAM L46 AND L45

```
=> s 147 full
FULL SEARCH INITIATED 16:30:39 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      66 TO ITERATE

100.0% PROCESSED      66 ITERATIONS          0 ANSWERS
SEARCH TIME: 00.00.01
```

```
L49      0 SEA SSS FUL L46 AND L45
```

```
=> fil reg
COST IN U.S. DOLLARS           SINCE FILE      TOTAL
                                ENTRY          SESSION
FULL ESTIMATED COST          142.56        1110.91
```

```
FILE 'REGISTRY' ENTERED AT 16:33:42 ON 20 MAY 2002
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```

```
STRUCTURE FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2
DICTIONARY FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2
```

```
TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001
```

```
Please note that search-term pricing does apply when
conducting SmartSELECT searches.
```

```
Crossover limits have been increased. See HELP CROSSOVER for details.
```

```
Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf
```

```
=> ....Testing the current file.... screen
```

```
ENTER SCREEN EXPRESSION OR (END):end
```

```
=> screen 964
```

```
L50      SCREEN CREATED
```

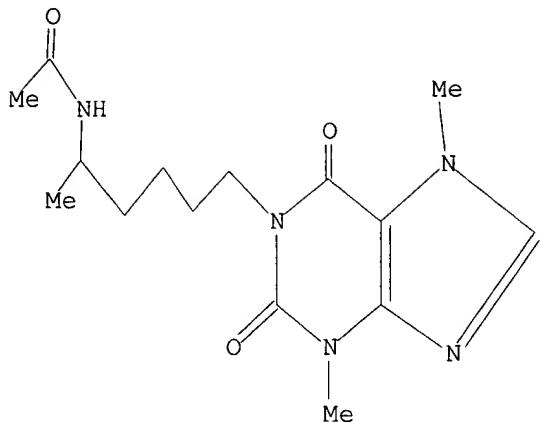
```
=>
Uploading C:\STNEXP4\QUERIES\15.str
```

```
L51      STRUCTURE uploaded
```

```
=> que L51 AND L50
```

```
L52      QUE L51 AND L50
```

```
=> d 152
L52 HAS NO ANSWERS
L50          SCR 964
L51          STR
```



Structure attributes must be viewed using STN Express query preparation.
L52 QUE ABB=ON PLU=ON L51 AND L50

=> s 152
SAMPLE SEARCH INITIATED 16:34:12 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS 0 ANSWERS
SEARCH TIME: 00:00:01

| | | |
|------------------------|--------|--------------|
| FULL FILE PROJECTIONS: | ONLINE | **COMPLETE** |
| | BATCH | **COMPLETE** |
| PROJECTED ITERATIONS: | 3 TO | 163 |
| PROJECTED ANSWERS: | 0 TO | 0 |

L53 0 SEA SSS SAM L51 AND L50

=> s 152 ful
FULL SEARCH INITIATED 16:34:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 79 TO ITERATE

100.0% PROCESSED 79 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

L54 2 SEA SSS FUL L51 AND L50

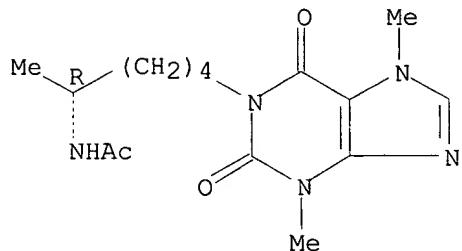
```
=> d 1545  
L545 NOT FOUND  
The L-number entered has not been defined in this session, or it  
has been deleted. To see the L-numbers currently defined in this  
session, enter DISPLAY HISTORY at an arrow prompt (=>)
```

-> d 154

L54 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2002 ACS
RN 301534-51-0 REGISTRY
CN Acetamide, N-[(1R)-1-methyl-5-(2,3,6,7-tetrahydro-3,7-dimethyl-2,6-dioxo-1H-purin-1-yl)pentyl]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN CT 12538
FS STEREOSEARCH

MF C15 H23 N5 O3
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

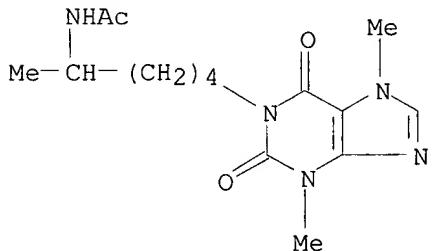


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d 2

L54 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2002 ACS
RN 213039-43-1 REGISTRY
CN Acetamide, N-[1-methyl-5-(2,3,6,7-tetrahydro-3,7-dimethyl-2,6-dioxo-1H-purin-1-yl)pentyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H23 N5 O3
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> fil caplus uapatfull medline
'UAPATFULL' IS NOT A VALID FILE NAME
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available. If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.

ENTER A FILE NAME OR (IGNORE):uspatfull

COST IN U.S. DOLLARS

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 144.20 | 1255.11 |

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 16:35:43 ON 20 MAY 2002

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FILE 'USPATFULL' ENTERED AT 16:35:43 ON 20 MAY 2002

CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'MEDLINE' ENTERED AT 16:35:43 ON 20 MAY 2002

=> s 301534-51-0/rn

'RN' IS NOT A VALID FIELD CODE
L55 1 301534-51-0/RN

=> d 155

L55 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN 2000:742096 CAPLUS

DN 133:296325

TI Preparation of xanthine derivatives and analogs as cell signaling
inhibitors

IN Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing

PA Cell Therapeutics, Inc., USA

SO PCT Int. Appl., 146 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 8

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------|---|----------|-----------------|----------|
| PI WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |
| W: | AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| RW: | GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| US 6100271 | A | 20000808 | US 1995-483871 | 19950607 |
| US 6103730 | A | 20000815 | US 1995-486264 | 19950607 |
| US 2002028823 | A1 | 20020307 | US 1999-288556 | 19990409 |
| EP 1171442 | A1 | 20020116 | EP 2000-921774 | 20000407 |
| R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO | | | |
| PRAI US 1995-483871 | A2 | 19950607 | | |
| US 1995-486264 | A2 | 19950607 | | |
| US 1999-288556 | A2 | 19990409 | | |
| US 1994-199368 | B2 | 19940218 | | |
| US 1994-217051 | B1 | 19940324 | | |
| US 1998-8020 | B2 | 19980116 | | |
| WO 2000-US9139 | W | 20000407 | | |

OS MARPAT 133:296325

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

| | | | |
|----------------------|--|------------|---------|
| => fil reg | | | |
| COST IN U.S. DOLLARS | | SINCE FILE | TOTAL |
| FULL ESTIMATED COST | | ENTRY | SESSION |
| | | 6.59 | 1261.70 |

FILE 'REGISTRY' ENTERED AT 16:38:17 ON 20 MAY 2002
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DICTIONARY FILE UPDATES: 18 MAY 2002 HIGHEST RN 418253-06-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 964

L56 SCREEN CREATED

=>
Uploading C:\STNEXP4\QUERIES\15.str

L57 STRUCTURE uploaded

=> que L57 AND L56

L58 QUE L57 AND L56

=> s 158
SAMPLE SEARCH INITIATED 16:38:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L59 0 SEA SSS SAM L57 AND L56

```

=> s 158 full
FULL SEARCH INITIATED 16:38:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L60 0 SEA SSS FUL L57 AND L56

=> s 157 full
FULL SEARCH INITIATED 16:38:56 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

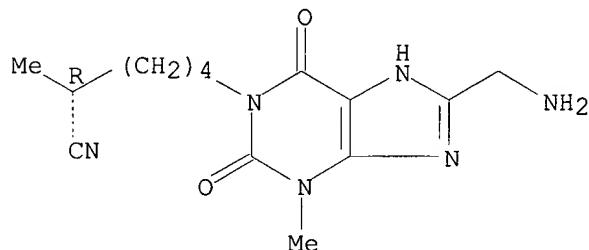
L61 1 SEA SSS FUL L57

=> d 161

L61 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 301536-71-0 REGISTRY
CN 1H-Purine-1-hexanenitrile, 8-(aminomethyl)-2,3,6,7-tetrahydro-.alpha.,3-
dimethyl-2,6-dioxo-, (.alpha.R)- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN CT 30289
FS STEREOSEARCH
MF C14 H20 N6 O2
SR CA
LC STN Files: CA, CAPLUS

```

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

| | | |
|---------------------------------|------------|---------|
| => fil caplus medline uspatfull | SINCE FILE | TOTAL |
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 282.14 | 1543.84 |

FILE 'CAPLUS' ENTERED AT 16:39:25 ON 20 MAY 2002
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FILE 'MEDLINE' ENTERED AT 16:39:25 ON 20 MAY 2002

FILE 'USPATFULL' ENTERED AT 16:39:25 ON 20 MAY 2002

CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

=> s 301536-71-0/rn
'RN' IS NOT A VALID FIELD CODE
L62 1 301536-71-0/RN

=> d 162

L62 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
AN 2000:742096 CAPLUS
DN 133:296325
TI Preparation of xanthine derivatives and analogs as cell signaling
inhibitors
IN Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.; Gong, Baoqing
PA Cell Therapeutics, Inc., USA
SO PCT Int. Appl., 146 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 8

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|---|----------|-----------------|----------|
| PI | WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |
| | W: | AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | RW: | GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| | US 6100271 | A | 20000808 | US 1995-483871 | 19950607 |
| | US 6103730 | A | 20000815 | US 1995-486264 | 19950607 |
| | US 2002028823 | A1 | 20020307 | US 1999-288556 | 19990409 |
| | EP 1171442 | A1 | 20020116 | EP 2000-921774 | 20000407 |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO | | | |
| PRAI | US 1995-483871 | A2 | 19950607 | | |
| | US 1995-486264 | A2 | 19950607 | | |
| | US 1999-288556 | A2 | 19990409 | | |
| | US 1994-199368 | B2 | 19940218 | | |
| | US 1994-217051 | B1 | 19940324 | | |
| | US 1998-8020 | B2 | 19980116 | | |
| | WO 2000-US9139 | W | 20000407 | | |

OS MARPAT 133:296325

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

Trying 3106016892...Open

```
Welcome to STN International! Enter x:x  
LOGINID:sssptal617mxb  
PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2
```

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 15:56:33 ON 27 SEP 2001

```
=> fileregistry  
FILEREGISTRY IS NOT A RECOGNIZED COMMAND  
The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (>).
```

=> file registry
COST IN U.S. DOLLARS

SINCE FILE TOTAL
ENTRY SESSION

FULL ESTIMATED COST 1.95 1.95

FILE 'REGISTRY' ENTERED AT 16:04:26 ON 27 SEP 2001
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STRUCTURE FILE UPDATES: 26 SEP 2001 HIGHEST RN 358967-92-7
DICTIONARY FILE UPDATES: 26 SEP 2001 HIGHEST RN 358967-92-7

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
for details.

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

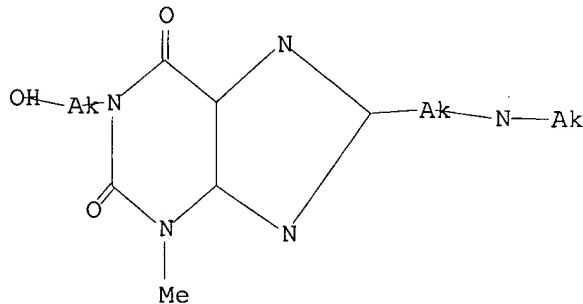
=>
Uploading C:\STNEXP4\QUERIES\xxxx.str

L1 STRUCTURE uploaded

=> que L1

L2 QUE L1

=> d l2
L2 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.
L2 QUE ABB=ON PLU=ON L1

=> s l1
SAMPLE SEARCH INITIATED 16:05:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2259 TO ITERATE

44.3% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01 0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 42331 TO 48029
PROJECTED ANSWERS: 0 TO 0

L3 0 SEA SSS SAM L1

=> s 12
SAMPLE SEARCH INITIATED 16:05:13 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2259 TO ITERATE

44.3% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 42331 TO 48029
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L1

=> s 11 full
FULL SEARCH INITIATED 16:05:28 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 46427 TO ITERATE

100.0% PROCESSED 46427 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.12

L5 0 SEA SSS FUL L1

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

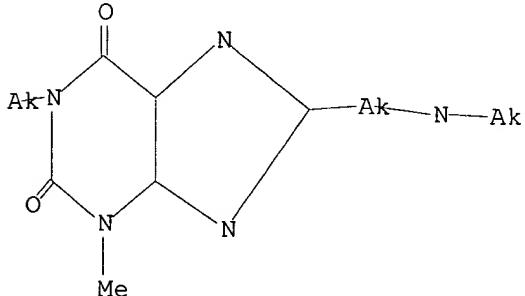
=>
Uploading C:\STNEXP4\QUERIES\xxxxoh.str

L6 STRUCTURE UPLOADED

=> que L6

L7 QUE L6

=> d 17
L7 HAS NO ANSWERS
L6 STR



Structure attributes must be viewed using STN Express query preparation.
L7 OUE ABB=ON PLU=ON L6

=> s 16
SAMPLE SEARCH INITIATED 16:07:50 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2259 TO ITERATE

44.3% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

| | | | |
|------------------------|--------|--------------|-------|
| FULL FILE PROJECTIONS: | ONLINE | **COMPLETE** | |
| | BATCH | **COMPLETE** | |
| PROJECTED ITERATIONS: | 42331 | TO | 48029 |
| PROJECTED ANSWERS: | 0 | TO | 0 |

L8 0 SEA SSS SAM L6

```
=> s 16 full
FULL SEARCH INITIATED 16:07:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 46427 TO ITERATE
```

100.0% PROCESSED 46427 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.10

L9 0 SEA SSS FUL L6

Trying 3106016892...Open

```
Welcome to STN International! Enter x:x
LOGINID:ssspta1617mxb
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2
```

* * * * * * * * * * * * * Welcome to STN International * * * * * * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Dec 17 The CA Lexicon available in the CAPLUS and CA files
NEWS 3 Feb 06 Engineering Information Encompass files have new names
NEWS 4 Feb 16 TOXLINE no longer being updated
NEWS 5 Apr 23 Search Derwent WPINDEX by chemical structure
NEWS 6 Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS 7 May 07 DGENE Reload
NEWS 8 Jun 20 Published patent applications (A1) are now in USPATFULL
NEWS 9 JUL 13 New SDI alert frequency now available in Derwent's DWPI and DPCI
NEWS 10 Aug 23 In-process records and more frequent updates now in MEDLINE
NEWS 11 Aug 23 PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
NEWS 12 Aug 23 Adis Newsletters (ADISNEWS) now available on STN
NEWS 13 Sep 17 IMSworld Pharmaceutical Company Directory name change to PHARMASEARCH

NEWS EXPRESS August 15 CURRENT WINDOWS VERSION IS V6.0c,
CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),
AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 17:01:19 ON 27 SEP 2001

FILE 'REGISTRY' ENTERED AT 17:01:33 ON 27 SEP 2001
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STRUCTURE FILE UPDATES: 26 SEP 2001 HIGHEST RN 358967-92-7
DICTIONARY FILE UPDATES: 26 SEP 2001 HIGHEST RN 358967-92-7

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT for details.

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

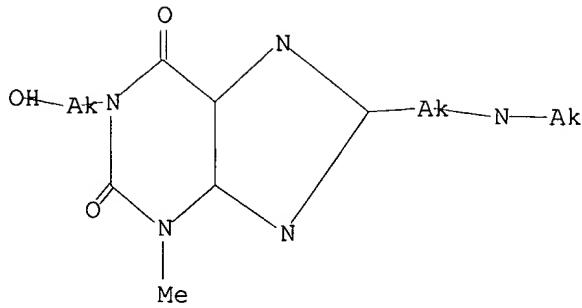
```
=>  
Uploading C:\STNEXP4\QUERIES\xxxx.str
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L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> d
L2 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.
L2 QUE ABB=ON PLU=ON L1

=> s 12
SAMPLE SEARCH INITIATED 17:02:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2259 TO ITERATE

44.3% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTION ANSWERS: 0 TO 0
PROJECTED ITERATIONS: 42331 TO 48029

L3 0 SEA SSS SAM L1

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=> s full 12
FULL SEARCH INITIATED 17:02:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 46427 TO ITERATE
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100.0% PROCESSED 46427 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.10

L4 0 SEA SSS FUL L1

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

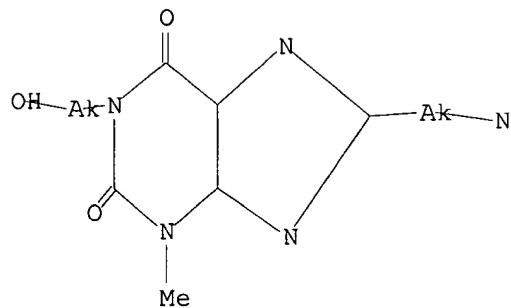
=>
Uploading C:\STNEXP4\QUERIES\san.str

L5 STRUCTURE UPLOADED

=> que L5

L6 QUE L5

=> d
L6 HAS NO ANSWERS
L5 ST



Structure attributes must be viewed using STN Express query preparation.
L6 QUE ABB=ON PLU=ON L5

=> s 16
SAMPLE SEARCH INITIATED 17:05:30 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2259 TO ITERATE

44.3% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECTED ITERATIONS: 42331 TO 48029
PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L5

```
=> s 16 full
FULL SEARCH INITIATED 17:05:38 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 46427 TO ITERATE
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100.0% PROCESSED 46427 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.11

L8 0 SEA SSS FUL L5

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END) :end

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=> Uploading C:\STNEXP4\QUERIES\san.str
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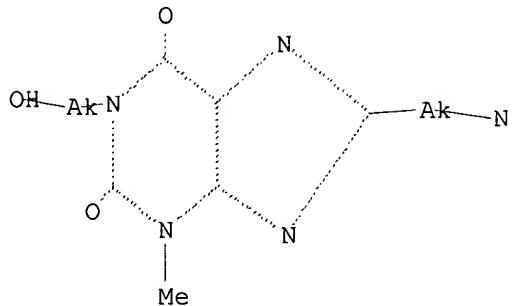
L9 STRUCTURE UPLOADED

=> que L9

L10 QUE L9

=> d

L10 HAS NO ANSWERS
L9 ST



Structure attributes must be viewed using STN Express query preparation.
L10 QUE ABB=ON PLU=ON L9

=> s 19
SAMPLE SEARCH INITIATED 17:07:30 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2259 TO ITERATE

44.3% PROCESSED 1000 ITERATIONS 2 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

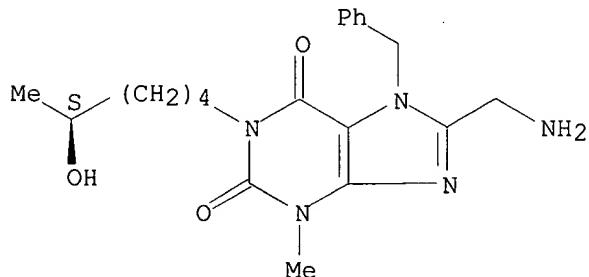
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
PROJECITD ANSWERS: 2 TO 217
PROJECTED ITERS: 42331 TO 48029

L11 2 SEA SSS SAM L9

=> d scan

L11 2 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione,
8-(aminomethyl)-3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-3-
methyl-7-(phenylmethyl)- (9CI)
MF C20 H27 N5 O3

Absolute stereochemistry.

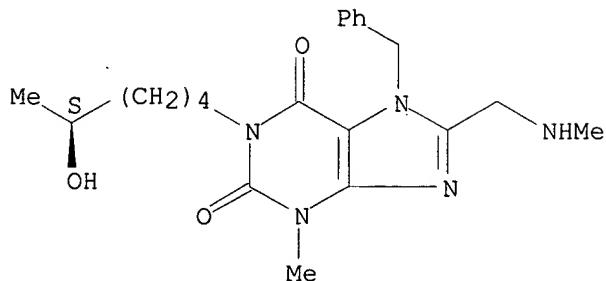


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L11 2 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-3-methyl-8-[(methylamino)methyl]-7-(phenylmethyl)- (9CI)

MF C21 H29 N5 O3

Absolute stereochemistry.



ALL ANSWERS HAVE BEEN SCANNED

=> s 19 full

FULL SEARCH INITIATED 17:08:01 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 46427 TO ITERATE

100.0% PROCESSED 46427 ITERATIONS
SEARCH TIME: 00.00.10

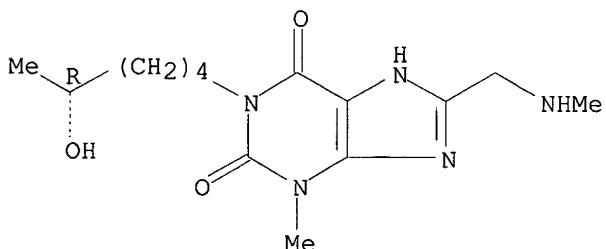
9 ANSWERS

L12 9 SEA SSS FUL L9

=> d tot

L12 ANSWER 1 OF 9 REGISTRY COPYRIGHT 2001 ACS
RN 301536-56-1 REGISTRY
CN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl-8-
[(methylamino)methyl]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN CT 12441
FS STEREOSEARCH
MF C14 H23 N5 O3
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

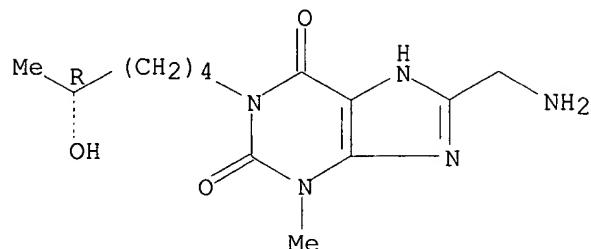
L12 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2001 ACS

RN 301536-55-0 REGISTRY

CN 1H-Purine-2,6-dione,
8-(aminomethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-

methyl- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN CT 12440
 FS STEREOSEARCH
 MF C13 H21 N5 O3
 SR CA
 LC STN Files: CA, CAPLUS

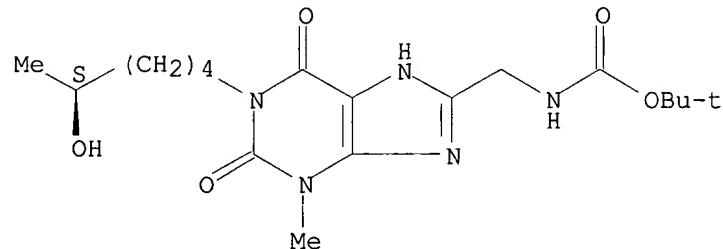
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2001 ACS
 RN 301329-37-3 REGISTRY
 CN Carbamic acid, [[2,3,6,7-tetrahydro-1-[(5S)-5-hydroxyhexyl]-3-methyl-2,6-dioxo-1H-purin-8-yl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C18 H29 N5 O5
 SR CA
 LC STN Files: CA, CAPLUS

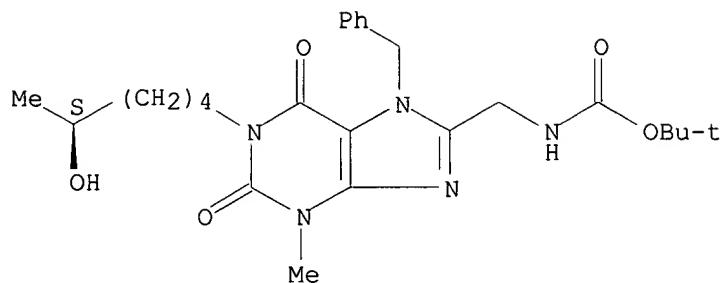
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2001 ACS
 RN 301329-36-2 REGISTRY
 CN Carbamic acid, [[2,3,6,7-tetrahydro-1-[(5S)-5-hydroxyhexyl]-3-methyl-2,6-dioxo-7-(phenylmethyl)-1H-purin-8-yl]methyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C25 H35 N5 O5
 SR CA
 LC STN Files: CA, CAPLUS

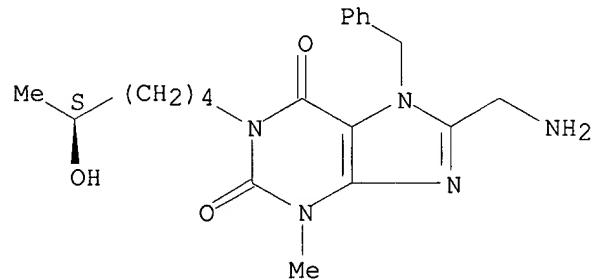
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2001 ACS
 RN 301329-35-1 REGISTRY
 CN 1H-Purine-2,6-dione,
 8-(aminomethyl)-3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-3-
 methyl-7-(phenylmethyl)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C20 H27 N5 O3
 SR CA
 LC STN Files: CA, CAPLUS

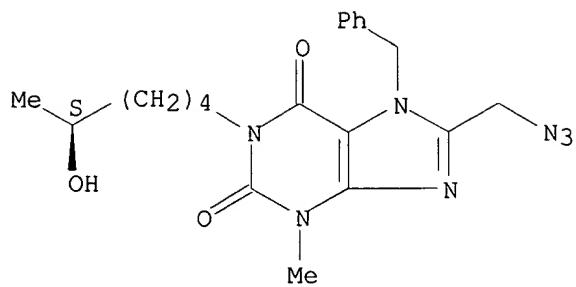
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2001 ACS
 RN 301329-34-0 REGISTRY
 CN 1H-Purine-2,6-dione,
 8-(azidomethyl)-3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-3-
 methyl-7-(phenylmethyl)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C20 H25 N7 O3
 SR CA
 LC STN Files: CA, CAPLUS

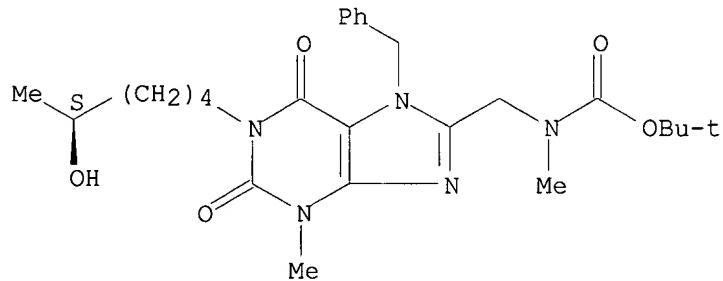
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2001 ACS
RN 301329-29-3 REGISTRY
CN Carbamic acid,
methyl[[2,3,6,7-tetrahydro-1-[(5S)-5-hydroxyhexyl]-3-methyl-
2,6-dioxo-7-(phenylmethyl)-1H-purin-8-yl]methyl]-, 1,1-dimethylethyl
ester
(9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C26 H37 N5 O5
SR CA
LC STN Files: CA, CAPLUS

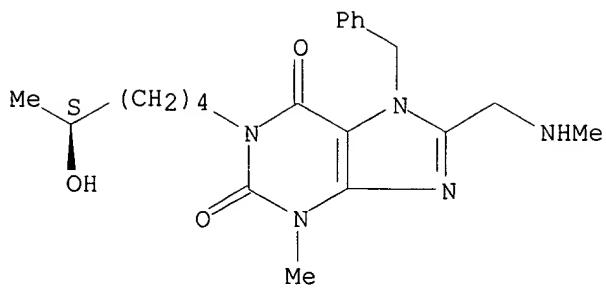
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2001 ACS
RN 301329-11-3 REGISTRY
CN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-3-methyl-8-
[(methylamino)methyl]-7-(phenylmethyl)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H29 N5 O3
SR CA
LC STN Files: CA, CAPLUS

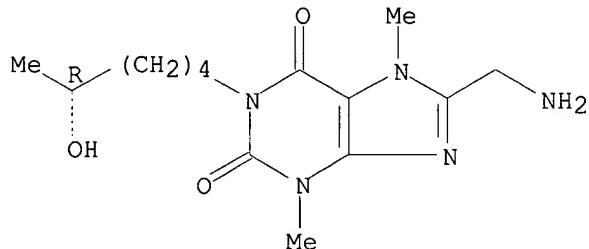
Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2001 ACS
 RN 301328-82-5 REGISTRY
 CN 1H-Purine-2,6-dione, 8-(aminomethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3,7-dimethyl- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 8-(Aminomethyl)-1-[(R)-5-Hydroxyhexyl]-3,7-dimethylxanthine
 FS STEREOSEARCH
 MF C14 H23 N5 O3
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

| | | |
|----------------------|------------|---------|
| => fil caplu | SINCE FILE | TOTAL |
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 417.59 | 417.74 |

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FILE LAST UPDATED: 26 Sep 2001 (20010926/ED)

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```
=> s klein, j?/au
L13      2429 KLEIN, J?/AU

=> s klaus, st?/au
L14      17 KLAUS, ST?/AU

=> s l13 and l14
L15      1 L13 AND L14

=> d scan

L15      1 ANSWERS    CAPPLUS  COPYRIGHT 2001 ACS
IC       ICM C07D473-06
        ICS C07D473-04; C07D487-04; C07D513-04; C07D495-04; A61K031-522;
        A61P035-00; C07D487-04; C07D239-00; C07D209-00; C07D513-04;
        C07D285-00; C07D239-00; C07D487-04; C07D249-00; C07D239-00;
        C07D495-04; C07D333-00; C07D235-00
CC       26-9 (Biomolecules and Their Synthetic Analogs)
        Section cross-reference(s): 1, 28, 63
TI       Preparation of xanthine derivatives and analogs as cell signaling
        inhibitors
ST       xanthine deriv analog prepn cell signaling inhibitor; interleukin 12
        disorder inhibitor xanthine deriv analog prepn
IT       Purine bases
        RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic
        preparation); THU (Therapeutic use); BIOL (Biological study); PREP
        (Preparation); USES (Uses)
        (analog and derivs.; prepn. of xanthine derivs. and analogs as cell
        signaling inhibitors)
IT       Encephalomyelitis
        (autoimmune, adoptive transfer model; prepn. of xanthine derivs. and
        analogs as cell signaling inhibitors)
IT       Interleukin 12
        RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (intracellular signalling disorders; prepn. of xanthine derivs. and
        analogs as cell signaling inhibitors)
IT       Animal cell
```

(mammalian, signaling inhibitors; prepn. of xanthine derivs. and analogs as cell signaling inhibitors)

IT Cytokines
RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (proinflammatory; prepn. of xanthine derivs. and analogs as cell signaling inhibitors)

IT Interferons
RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (.gamma.; prepn. of xanthine derivs. and analogs as cell signaling inhibitors)

IT 301536-59-4P, CT 12458
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(pn. of xanthine derivs. and analogs as cell signaling inhibitors)

IT 301328-80-3DP, libraries 301329-13-5P, 8-Bromo-3,7-dimethyl-1-[(R)-5-hydroxyhexyl]xanthine 301329-14-6P 301329-15-7P 301329-27-1P, 1-[(R)-5-Azidohexyl]-3,7-dimethylxanthine 301329-28-2P, 1-[(R)-5-Aminohexyl]-3,7-dimethylxanthine 301329-33-9P 301329-34-0P 301329-35-1P 301329-49-7P,
8-(Benzyl)oxymethyl-1-[(R)-5-hydroxyhexyl]-3-methylxanthine 301329-53-3P, 8-Chloromethyl-1-[(R)-5-hydroxyhexyl]-3,7-dimethylxanthine
RL: BAC (Biological activity or effector, except adverse); RCT (Reactant);
SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of xanthine derivs. and analogs as cell signaling inhibitors)

IT 100324-81-0
RL: BAC (Biological activity or effector, except adverse); RCT (Reactant);
THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(prepn. of xanthine derivs. and analogs as cell signaling inhibitors)

IT 230644-84-5P, CT 12407 231963-20-5P, CT 12460 231963-21-6P, CT 17556
231963-23-8P, CT 17557 301328-77-8DP, 1-[(R)-5-Hydroxyhexyl]-3-methylxanthine, 7-substituted libraries 301328-78-9DP,
1-[(R)-5-Hydroxyhexyl]-7-methylxanthine, 3-substituted libraries 301328-79-0DP, 1-[(S)-5-Hydroxyhexyl]-7-methylxanthine, 3-substituted libraries 301328-81-4DP, 8-Amino-1-[(R)-5-Hydroxyhexyl]-3-methylxanthine, libraries 301328-82-5DP, 8-(Aminomethyl)-1-[(R)-5-Hydroxyhexyl]-3,7-dimethylxanthine, libraries 301329-44-2P, CT 22404
301329-45-3DP, 1-[(S)-5-Hydroxyhexyl]-3-methylxanthine, 7-substituted libraries 301329-57-7P, CT 12404 301534-49-6P, CT 11558
301534-50-9P, CT 21558 301534-51-0P, CT 12538 301536-06-1P, CT 14577
301536-20-9P, 1-[(R)-5-Methoxyhexyl]-3,7-dimethylxanthine 301536-21-0P, CT 12465 301536-25-4P, CT 22465 301536-51-6P, CT 7549 301536-52-7P, CT 11495 301536-53-8P, CT 11499 301536-54-9P, CT 12422
301536-55-0P, CT 12440 301536-56-1P, CT 12441 301536-57-2P, CT 12447
301536-58-3P, CT 12452 301536-60-7P, CT 12459 301536-61-8P, CT 12461
301536-62-9P, CT 12463 301536-63-0P, CT 12464 301536-64-1P, CT 12481
301536-66-3P, CT 12485 301536-67-4P, CT 12490 301536-68-5P, CT 22464
301536-69-6P, CT 13410 301536-70-9P, CT 16575 301536-71-0P, CT 30289
301536-72-1P, CT 30280 301536-73-2P, CT 30274
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)

(prepn. of xanthine derivs. and analogs as cell signaling inhibitors)

IT 58-85-5, Biotin 62-23-7, 4-Nitrobenzoic acid 98-00-0, Furfuryl alcohol

100-39-0, Benzyl bromide 108-24-7, Acetic anhydride 108-30-5, reactions 123-38-6, Propionaldehyde, reactions 141-43-5, reactions 372-09-8, Cyanoacetic acid 407-25-0, Trifluoroacetic anhydride 538-32-9, N-Benzylurea 543-27-1, Isobutyl chloroformate 552-62-5, 7-Methylxanthine 611-59-6, 1,7-Dimethylxanthine 1076-22-8, 3-Methylxanthine 2434-53-9, 6-Amino-1-methyluracil 3188-13-4, Chloromethyl ethyl ether 4048-33-3, 6-Amino-1-hexanol 7751-38-4, Dichlorodiisopropylsilane 9003-53-6, Polystyrene 13087-49-5, 3,7-Dimethyluric acid 18997-19-8, Chloromethyl pivalate 19810-31-2, (Benzylxy)acetyl chloride 100324-80-9 117381-20-1D, Argo gel, aminated resin 154885-34-4, (R)-5-Acetoxy-1-chlorohexane 154885-35-5 230644-86-7 230644-92-5 301328-83-6, 1-(5-Oximinohexyl)-3,7-dimethylxanthine 301329-02-2, (S)-5-Acetoxy-1-chlorohexane 301329-30-6, 1-[(S)-5-Acetoxymethyl]-8-(hydroxymethyl)-3-methylxanthine
RL: RCT (Reactant)

(prepn. of xanthine derivs. and analogs as cell signaling inhibitors)

IT 4437-18-7P, Furfurylbromide 6972-82-3P, 5,6-Diamino-1-methyluracil 9003-53-6DP, Polystyrene, brominated or chlorosilylated 15371-15-0P 26690-80-2P, N-(tert-Butoxycarbonyl)ethanolamine 35502-06-8P 39684-80-5P 41862-11-7P, 6-Amino-1-benzyluracil 56025-86-6P, 7-Benzyl-3-methylxanthine 62700-61-2P 72816-87-6P 72816-88-7P 75937-12-1P 82448-39-3P, 3,8-Dimethylxanthine 93703-24-3P, 8-Bromo-3-methylxanthine 93703-26-5P 131598-98-6P 142356-33-0P 230644-83-4P 301328-77-8DP, 1-[(R)-5-Hydroxyhexyl]-3-methylxanthine, polystyrene resin-bound 301328-77-8P, 1-[(R)-5-Hydroxyhexyl]-3-methylxanthine 301328-78-9P, 1-[(R)-5-Hydroxyhexyl]-7-methylxanthine 301328-79-0P, 1-[(S)-5-Hydroxyhexyl]-7-methylxanthine 301328-84-7P, 9-[(Pivaloyloxy)methyl]-3,7-dimethyluric acid 301328-85-8P, 3-(2-Furylmethyl)-7-methylxanthine 301328-86-9P 301328-87-0P, 8-Bromo-7-ethoxymethyl-3-methylxanthine 301328-88-1P 301328-89-2P 301328-93-8P 301328-94-9P 301328-95-0P 301328-97-2P 301328-98-3P 301328-99-4P 301329-00-0P 301329-01-1P 301329-03-3P, 3-[(R)-5-Acetoxyhexyl]-6-amino-1-methyluracil 301329-04-4P, 1-[(R)-5-Acetoxyhexyl]-3-methyluric acid 301329-05-5P 301329-06-6P 301329-07-7P 301329-08-8P,
1-[(R)-5-Acetoxyhexyl]-3-methyl-8-azaxanthine 301329-09-9P, 1-[(R)-5-Acetoxyhexyl]-3,7-dimethyl-8-azaxanthine 301329-10-2P, 1-[(R)-5-Acetoxyhexyl]-3,8-dimethyl-8-azaxanthine 301329-11-3P 301329-12-4P, 1-[(R)-5-Acetoxyhexyl]-8-bromo-3,7-dimethylxanthine 301329-16-8P, 1-[(S)-5-Acetoxyhexyl]-7-benzyl-3-methylxanthine 301329-17-9P, 1-[(R)-5-Acetoxyhexyl]-7-methylxanthine 301329-18-0P 301329-19-1P 301329-20-4P 301329-21-5P 301329-22-6P 301329-23-7P 301329-24-8P 301329-25-9P 301329-26-0P, 1-[(S)-5-(Mesyloxy)hexyl]-3,7-dimethylxanthine 301329-29-3P 301329-31-7P 301329-32-8P 301329-36-2P 301329-37-3P 301329-38-4P 301329-39-5P 301329-40-8P 301329-41-9P 301329-42-0P 301329-43-1P, 7-Benzyl-1-[(S)-5-(4-nitrobenzoyloxy)hexyl]-3-methylxanthine 301329-45-3P, 1-[(S)-5-Hydroxyhexyl]-3-methylxanthine 301329-46-4P, 8-Bromo-1-[(R)-5-hydroxyhexyl]-3-methylxanthine 301329-47-5P 301329-48-6DP, aminated Argo gel resin-bound 301329-48-6P 301329-50-0P, 1-[(R)-5-Acetoxyhexyl]-8-[(benzyloxy)methyl]-3-methylxanthine 301329-51-1P,
1-[(R)-5-Acetoxyhexyl]-8-[hydroxymethyl]-3-methylxanthine 301329-52-2P,
1-[(R)-5-Acetoxyhexyl]-8-hydroxymethyl-3,7-dimethylxanthine 301329-53-3DP, DHP-polystyrene resin-bound 301329-54-4P, 3-[(R)-5-Acetoxyhexyl]-1,7-dimethylxanthine 301329-55-5P

301329-56-6P, 1-[(R)-5-Acetoxyhexyl]-7-benzyl-3-methylxanthine
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of xanthine derivs. and analogs as cell signaling inhibitors)

ALL ANSWERS HAVE BEEN SCANNED

=> d

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS
AN 2000:742096 CAPLUS
DN 133:296325
TI Preparation of xanthine derivatives and analogs as cell signaling
inhibitors
IN Klein, J. Peter; Klaus, Stephen J.; Kumar, Anil M.;
Gong, Baoqing
PA Cell Therapeutics, Inc., USA
SO PCT Int. Appl., 146 pp.
CODEN: PIXXD2
DT Patent
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FAN.CNT 6

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------------------------|---|----------|-----------------|----------|
| PI | WO 2000061583 | A1 | 20001019 | WO 2000-US9139 | 20000407 |
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IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
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| | US 6103730 | A | 20000815 | US 1995-486264 | 19950607 |
| PRAI | US 1995-483871 | A2 | 19950607 | | |
| | US 1995-486264 | A2 | 19950607 | | |
| | US 1999-288556 | A2 | 19990409 | | |
| | US 1994-199368 | B2 | 19940218 | | |
| | US 1994-217051 | B1 | 19940324 | | |
| OS | MARPAT | 133:296325 | | | |
| RE.CNT | 6 | | | | |
| RE | | | | | |
| (1) | Cell Therapeutics Inc; | WO 9422449 A | 1994 | CAPLUS | |
| (2) | Cell Therapeutics Inc; | WO 9422863 A | 1994 | CAPLUS | |
| (3) | Cell Therapeutics Inc; | WO 9424133 A | 1994 | CAPLUS | |
| (4) | Cell Therapeutics Inc; | WO 9520589 A | 1995 | CAPLUS | |
| (5) | Cell Therapeutics Inc; | WO 9522546 A | 1995 | CAPLUS | |
| ALL CITATIONS AVAILABLE IN THE RE FORMAT | | | | | |

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STRUCTURE FILE UPDATES: 26 SEP 2001 HIGHEST RN 358967-92-7
DICTIONARY FILE UPDATES: 26 SEP 2001 HIGHEST RN 358967-92-7

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Structure search limits have been increased. See HELP SLIMIT
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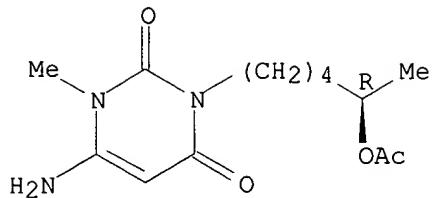
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L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
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(9CI)
MF C13 H21 N3 O4

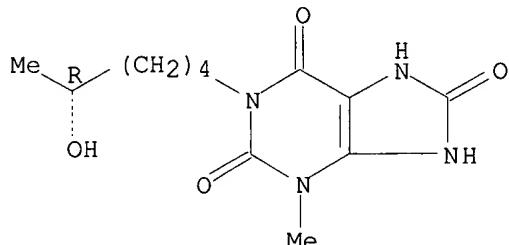
Absolute stereochemistry.



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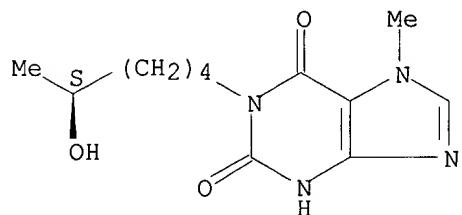
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6,8(3H)-trione, 7,9-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl- (9CI)
MF C12 H18 N4 O4

Absolute stereochemistry.



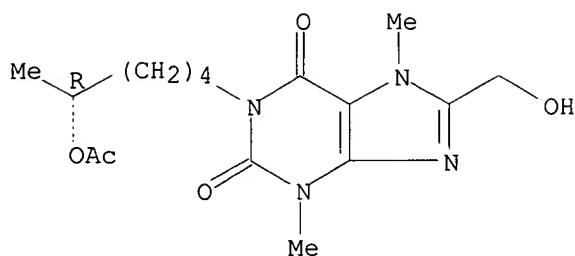
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Absolute stereochemistry.

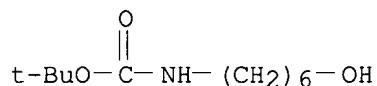


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetoxy)hexyl]-3,7-dihydro-8-(hydroxymethyl)-3,7-dimethyl- (9CI)
MF C16 H24 N4 O5

Absolute stereochemistry.

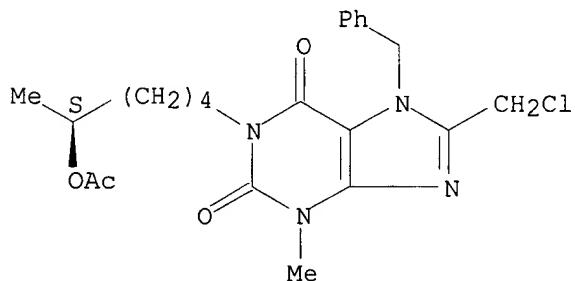


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 MF C11 H23 N O3

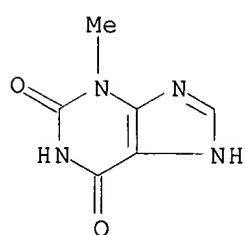


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 1-[(5S)-5-(acetyloxy)hexyl]-8-(chloromethyl)-3,7-dihydro-3-methyl-7-(phenylmethyl)- (9CI)
 MF C22 H27 Cl N4 O4

Absolute stereochemistry.

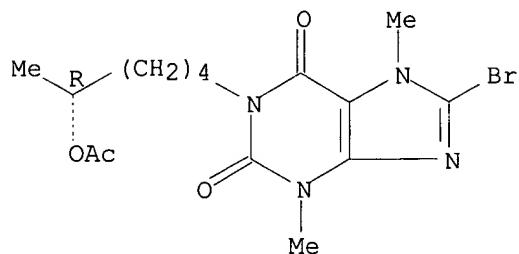


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
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 MF C6 H6 N4 O2
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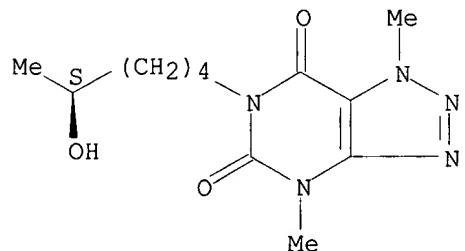
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetyloxy)hexyl]-8-bromo-3,7-dihydro-3,7-dimethyl- (9CI)
MF C15 H21 Br N4 O4

Absolute stereochemistry.



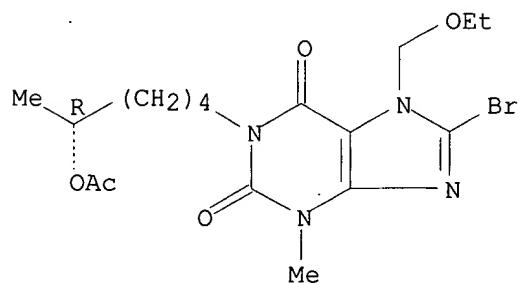
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IN 1H-1,2,3-Triazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 6-[(5S)-5-hydroxyhexyl]-1,4-dimethyl- (9CI)
MF C12 H19 N5 O3

Absolute stereochemistry.



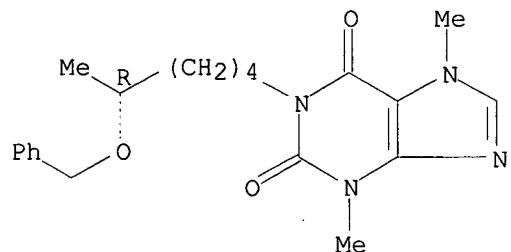
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione,
1-[(5R)-5-(acetyloxy)hexyl]-8-bromo-7-(ethoxymethyl)-
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MF C17 H25 Br N4 O5

Absolute stereochemistry.



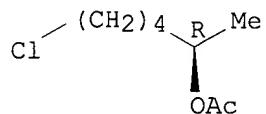
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-[(5R)-5-(phenylmethoxy)hexyl]- (9CI)
MF C20 H26 N4 O3

Absolute stereochemistry.



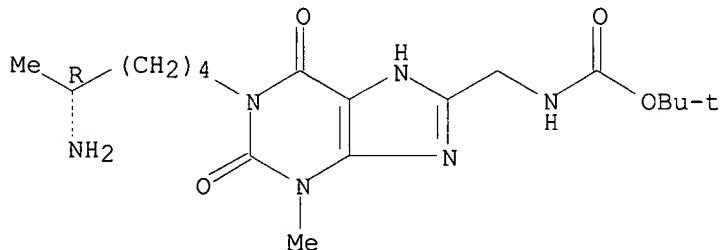
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IN 2-Hexanol, 6-chloro-, acetate, (2R)- (9CI)
MF C8 H15 Cl O2

Absolute stereochemistry.

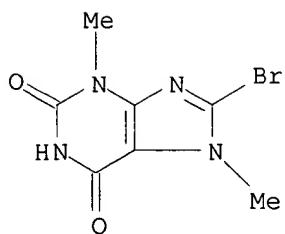


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Carbamic acid, [[1-[(5R)-5-aminohexyl]-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-8-yl]methyl]-, 1,1-dimethylethyl ester (9CI)
MF C18 H30 N6 O4

Absolute stereochemistry.

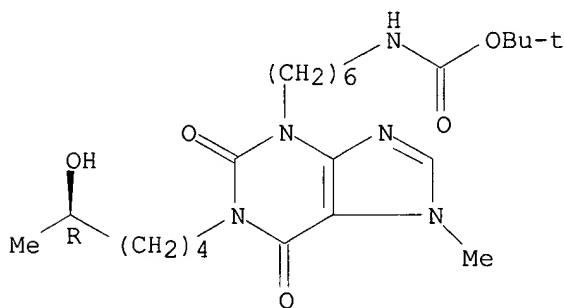


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 8-bromo-3,7-dihydro-3,7-dimethyl- (9CI)
MF C7 H7 Br N4 O2
CI COM



L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Carbamic acid,
 [6-[1,2,6,7-tetrahydro-1-[(5R)-5-hydroxyhexyl]-7-methyl-2,6-dioxo-3H-purin-3-yl]hexyl]-, 1,1-dimethylethyl ester (9CI)
 MF C23 H39 N5 O5

Absolute stereochemistry.

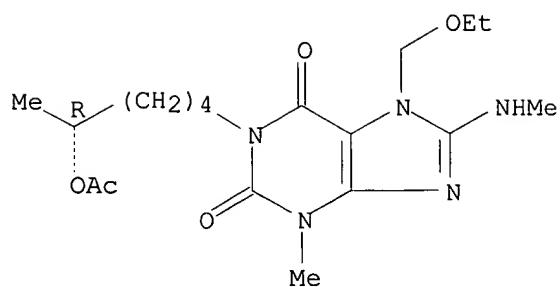


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 IN Benzene, (bromomethyl)- (9CI)
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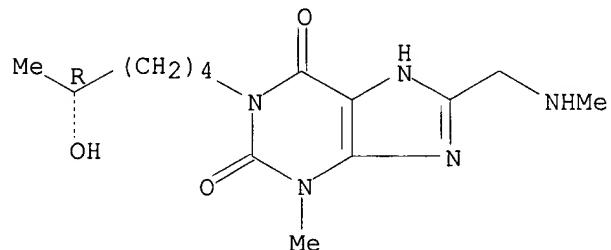
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 IN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetyloxy)hexyl]-7-(ethoxymethyl)-3,7-dihydro-3-methyl-8-(methylamino)- (9CI)
 MF C18 H29 N5 O5

Absolute stereochemistry.



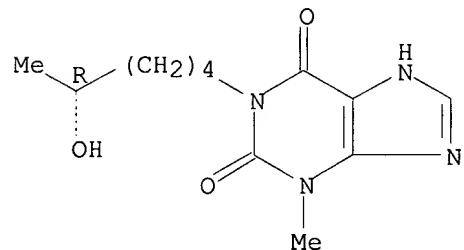
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl-8-
[(methylamino)methyl]- (9CI)
MF C14 H23 N5 O3

Absolute stereochemistry.



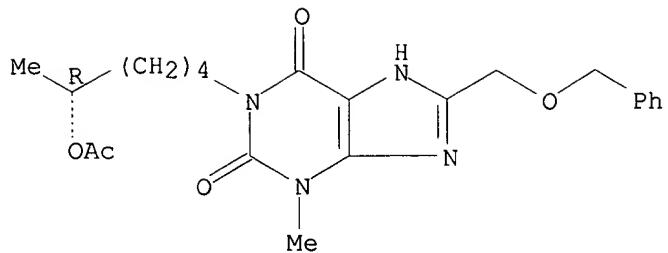
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl- (9CI)
MF C12 H18 N4 O3

Absolute stereochemistry.

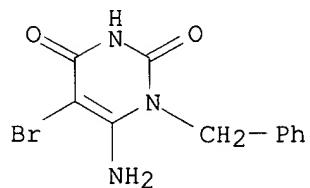


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetoxy)hexyl]-3,7-dihydro-3-methyl-8-
[(phenylmethoxy)methyl]- (9CI)
MF C22 H28 N4 O5

Absolute stereochemistry.

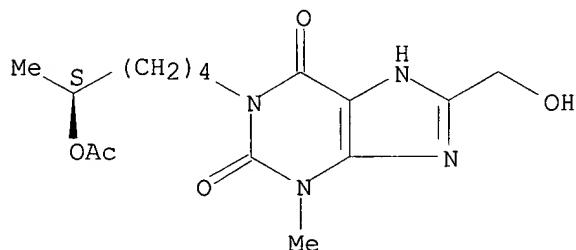


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2,4(1H,3H)-Pyrimidinedione, 6-amino-5-bromo-1-(phenylmethyl)- (9CI)
 MF C11 H10 Br N3 O2

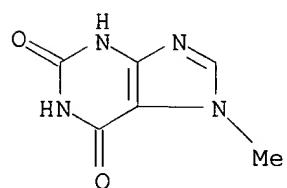


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 1-[(5S)-5-(acetyloxy)hexyl]-3,7-dihydro-8-(hydroxymethyl)-3-methyl- (9CI)
 MF C15 H22 N4 O5

Absolute stereochemistry.

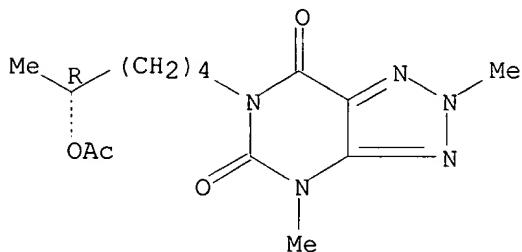


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 3,7-dihydro-7-methyl- (9CI)
 MF C6 H6 N4 O2
 CI COM



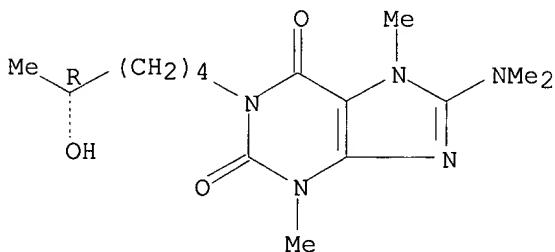
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 2H-1,2,3-Triazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 6-[(5R)-5-(acetoxy)hexyl]-2,4-dimethyl- (9CI)
MF C14 H21 N5 O4

Absolute stereochemistry.



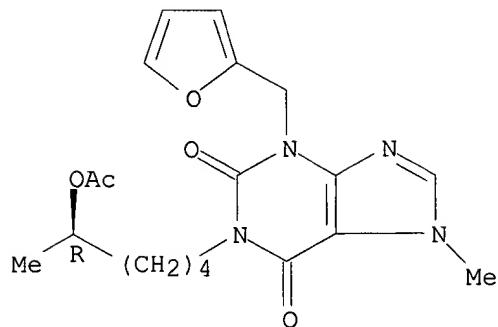
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione,
8-(dimethylamino)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-
3,7-dimethyl- (9CI)
MF C15 H25 N5 O3

Absolute stereochemistry.



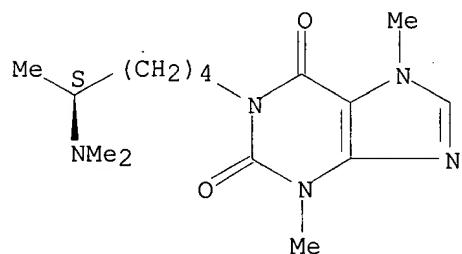
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetoxy)hexyl]-3-(2-furanylmethyl)-3,7-
dihydro-7-methyl- (9CI)
MF C19 H24 N4 O5

Absolute stereochemistry.

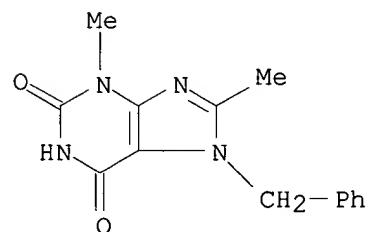


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 1-[(5S)-5-(dimethylamino)hexyl]-3,7-dihydro-3,7-dimethyl- (9CI)
MF C15 H25 N5 O2

Absolute stereochemistry.

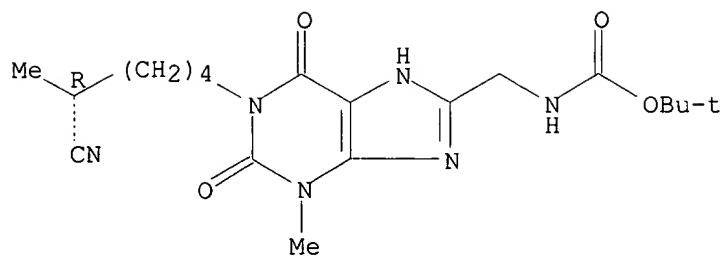


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-3,8-dimethyl-7-(phenylmethyl)- (9CI)
MF C14 H14 N4 O2



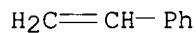
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Carbamic acid, [[1-[(5R)-5-cyanohexyl]-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-8-yl]methyl]-, 1,1-dimethylethyl ester (9CI)
MF C19 H28 N6 O4

Absolute stereochemistry.



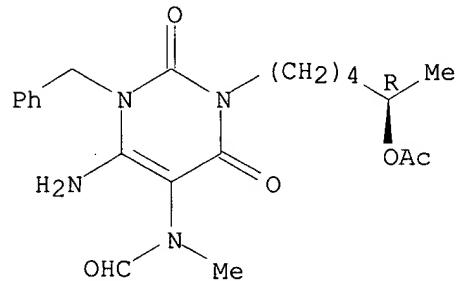
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzene, ethenyl-, homopolymer (9CI)
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT
 MF (C₈ H₈)_x
 CI PMS, COM

CM 1

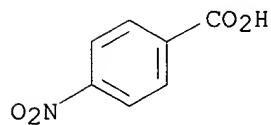


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Formamide, N-[3-[(5R)-5-(acetyloxy)hexyl]-6-amino-1,2,3,4-tetrahydro-2,4-dioxo-1-(phenylmethyl)-5-pyrimidinyl]-N-methyl- (9CI)
 MF C₂₁ H₂₈ N₄ O₅

Absolute stereochemistry.



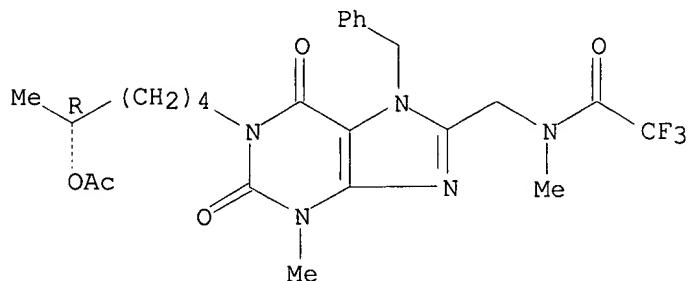
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzoic acid, 4-nitro- (9CI)
 MF C₇ H₅ N O₄
 CI COM



L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS

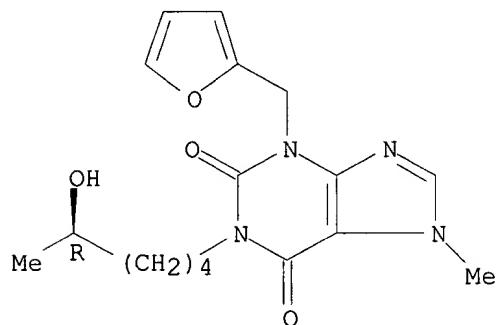
IN Acetamide,
 N-[1-[(5R)-5-(acetyloxy)hexyl]-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-7-(phenylmethyl)-1H-purin-8-yl]methyl]-2,2,2-trifluoro-N-methyl-
 (9CI)
 MF C25 H30 F3 N5 O5

Absolute stereochemistry.



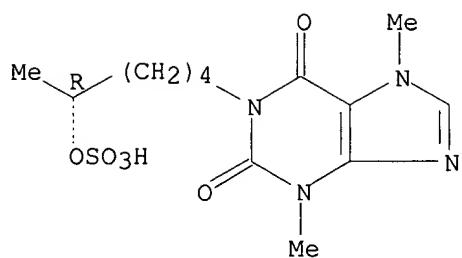
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 3-(2-furanylmethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-7-methyl- (9CI)
 MF C17 H22 N4 O4

Absolute stereochemistry.



L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione,
 3,7-dihydro-3,7-dimethyl-1-[(5R)-5-(sulfooxy)hexyl]-,
 sodium salt (9CI)
 MF C13 H20 N4 O6 S . Na

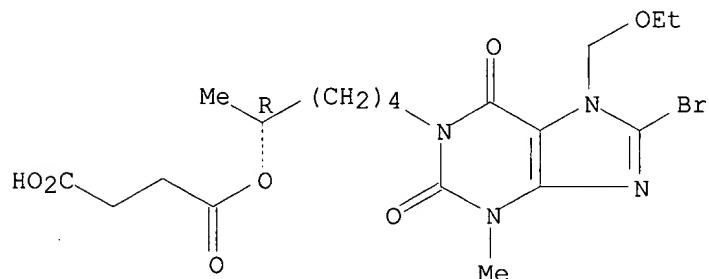
Absolute stereochemistry.



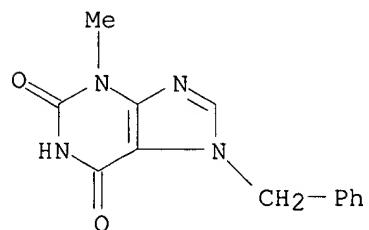
● Na

L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Butanedioic acid,
 mono[(1R)-5-[8-bromo-7-(ethoxymethyl)-2,3,6,7-tetrahydro-
 3-methyl-2,6-dioxo-1H-purin-1-yl]-1-methylpentyl] ester (9CI)
 MF C19 H27 Br N4 O7

Absolute stereochemistry.

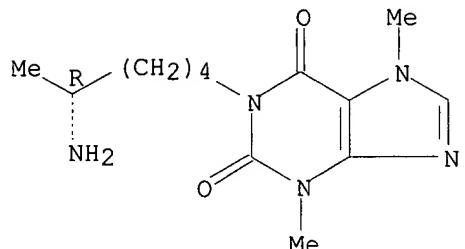


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 3,7-dihydro-3-methyl-7-(phenylmethyl)- (9CI)
 MF C13 H12 N4 O2

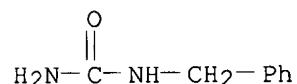


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 1-[(5R)-5-aminohexyl]-3,7-dihydro-3,7-dimethyl-
 (9CI)
 MF C13 H21 N5 O2

Absolute stereochemistry.

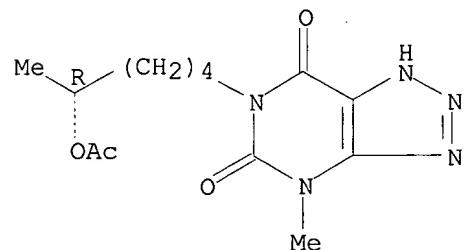


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Urea, (phenylmethyl)- (9CI)
MF C8 H10 N2 O
CI COM



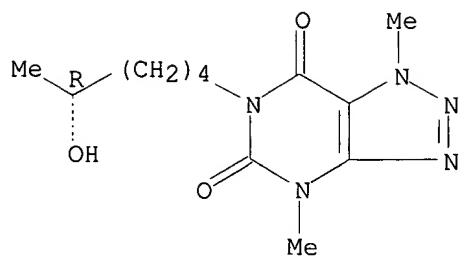
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 5H-1,2,3-Triazolo[4,5-d]pyrimidine-5,7(4H)-dione, 6-[(5R)-5-(acetoxyhexyl)-3,6-dihydro-4-methyl- (9CI)
MF C13 H19 N5 O4

Absolute stereochemistry.

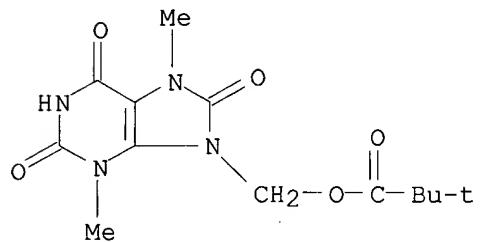


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-1,2,3-Triazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 6-[(5R)-5-hydroxyhexyl]-1,4-dimethyl- (9CI)
MF C12 H19 N5 O3

Absolute stereochemistry.

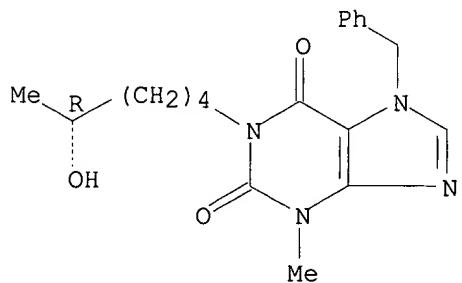


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Propanoic acid, 2,2-dimethyl-, (1,2,3,6,7,8-hexahydro-3,7-dimethyl-2,6,8-trioxa-9H-purin-9-yl)methyl ester (9CI)
 MF C13 H18 N4 O5



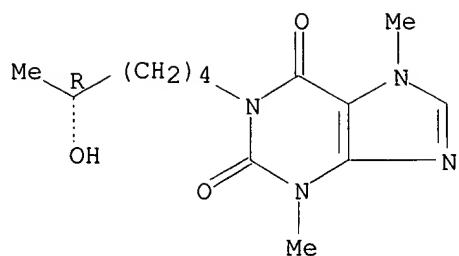
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl-7-(phenylmethyl)- (9CI)
 MF C19 H24 N4 O3

Absolute stereochemistry.



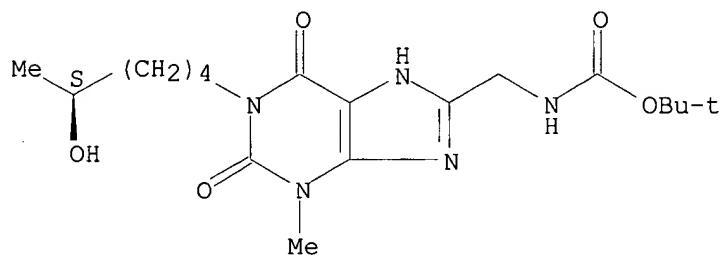
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3,7-dimethyl- (9CI)
 MF C13 H20 N4 O3

Absolute stereochemistry.

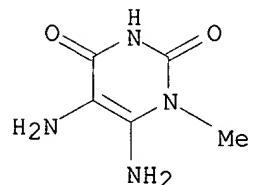


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Carbamic acid, [[2,3,6,7-tetrahydro-1-[(5S)-5-hydroxyhexyl]-3-methyl-2,6-dioxo-1H-purin-8-yl]methyl]-, 1,1-dimethylethyl ester (9CI)
 MF C18 H29 N5 O5

Absolute stereochemistry.

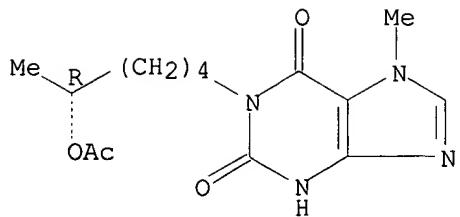


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2,4(1H,3H)-Pyrimidinedione, 5,6-diamino-1-methyl- (9CI)
 MF C5 H8 N4 O2
 CI COM



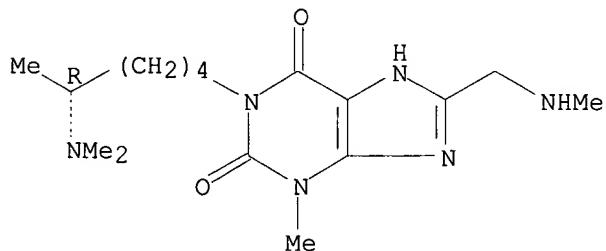
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetoxy)hexyl]-3,7-dihydro-7-methyl- (9CI)
 MF C14 H20 N4 O4

Absolute stereochemistry.



L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione,
 1-[(5R)-5-(dimethylamino)hexyl]-3,7-dihydro-3-methyl-
 8-[(methylamino)methyl]- (9CI)
 MF C16 H28 N6 O2

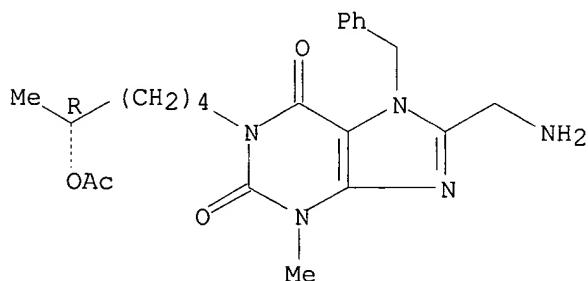
Absolute stereochemistry.



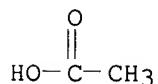
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetoxy)hexyl]-8-(aminomethyl)-3,7-
 dihydro-3-methyl-7-(phenylmethyl)-, monoacetate (9CI)
 MF C22 H29 N5 O4 . C2 H4 O2

CM 1

Absolute stereochemistry.

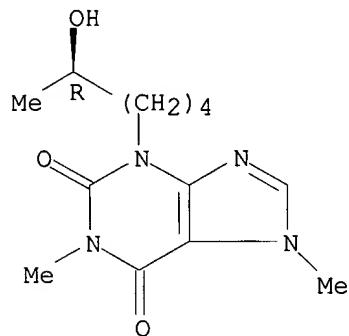


CM 2



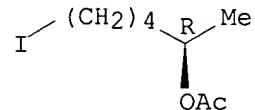
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-3-[(5R)-5-hydroxyhexyl]-1,7-dimethyl-
(9CI)
MF C13 H20 N4 O3

Absolute stereochemistry.



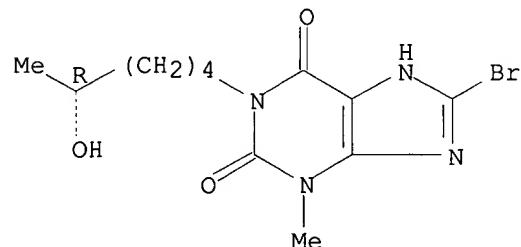
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 2-Hexanol, 6-iodo-, acetate, (2R)- (9CI)
MF C8 H15 I O2

Absolute stereochemistry.

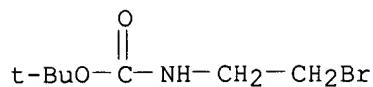


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione,
8-bromo-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl-
(9CI)
MF C12 H17 Br N4 O3

Absolute stereochemistry.

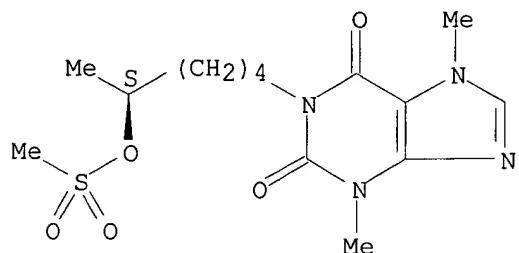


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Carbamic acid, (2-bromoethyl)-, 1,1-dimethylethyl ester (9CI)
MF C7 H14 Br N O2

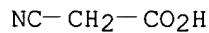


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-[(5S)-5-
 [(methylsulfonyl)oxy]hexyl]- (9CI)
 MF C14 H22 N4 O5 S

Absolute stereochemistry.

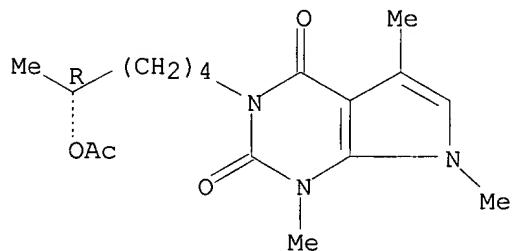


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Acetic acid, cyano- (6CI, 8CI, 9CI)
 MF C3 H3 N O2
 CI COM



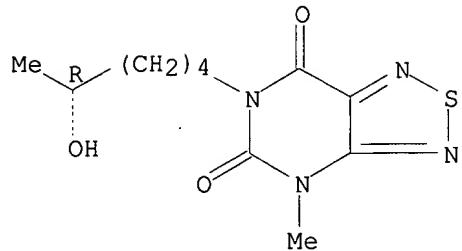
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Pyrrolo[2,3-d]pyrimidine-2,4(3H)-dione,
 3-[(5R)-5-(acetyloxy)hexyl]-1,7-
 dihydro-1,5,7-trimethyl- (9CI)
 MF C17 H25 N3 O4

Absolute stereochemistry.



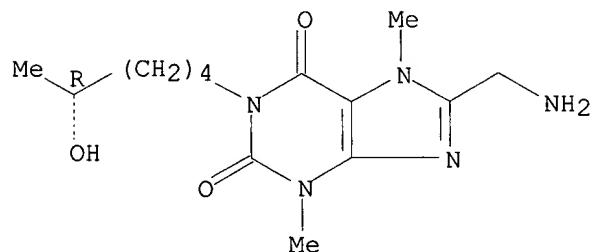
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN [1,2,5]Thiadiazolo[3,4-d]pyrimidine-5,7(4H,6H)-dione, 6-[(5R)-5-
 hydroxyhexyl]-4-methyl- (9CI)
 MF C11 H16 N4 O3 S

Absolute stereochemistry.



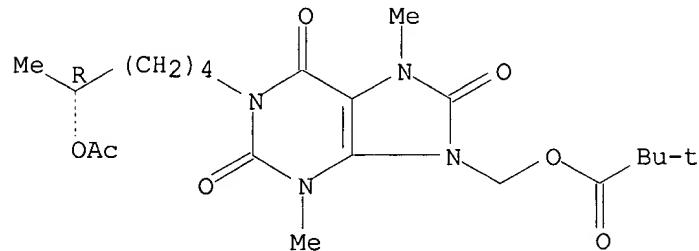
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 8-(aminomethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3,7-dimethyl- (9CI)
MF C14 H23 N5 O3

Absolute stereochemistry.

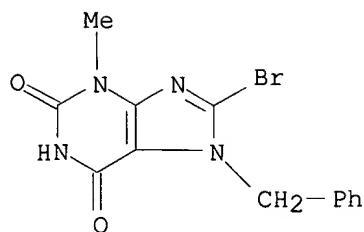


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Propanoic acid, 2,2-dimethyl-, [1-[(5R)-5-(acetyloxy)hexyl]-1,2,3,6,7,8-hexahydro-3,7-dimethyl-2,6,8-trioxo-9H-purin-9-yl]methyl ester (9CI)
MF C21 H32 N4 O7

Absolute stereochemistry.

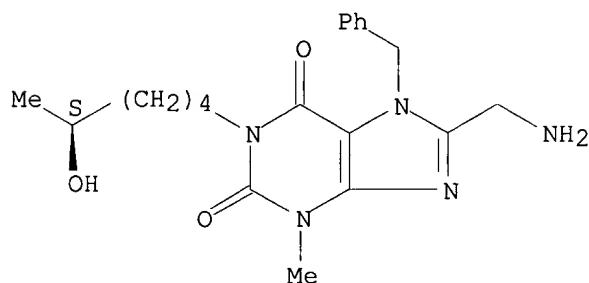


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 8-bromo-3,7-dihydro-3-methyl-7-(phenylmethyl)- (9CI)
MF C13 H11 Br N4 O2



L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione,
 8-(aminomethyl)-3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-3-
 methyl-7-(phenylmethyl)- (9CI)
 MF C20 H27 N5 O3

Absolute stereochemistry.

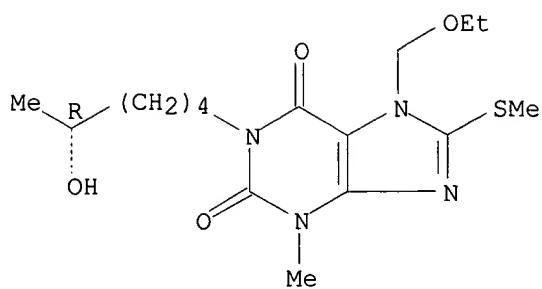


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1-Hexanol, 6-amino- (6CI, 8CI, 9CI)
 MF C6 H15 N O
 CI COM

H₂N-(CH₂)₆-OH

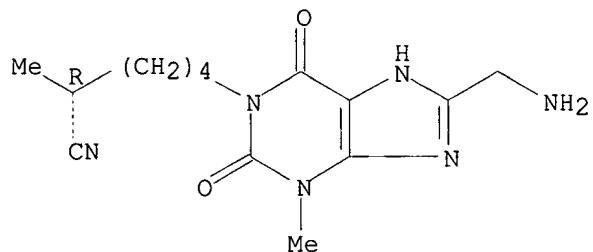
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione,
 7-(ethoxymethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-
 3-methyl-8-(methylthio)- (9CI)
 MF C16 H26 N4 O4 S

Absolute stereochemistry.



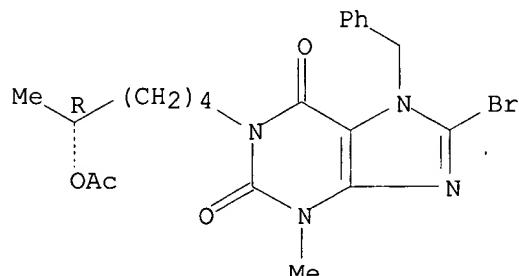
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-1-hexanenitrile, 8-(aminomethyl)-2,3,6,7-tetrahydro-.alpha.,3-dimethyl-2,6-dioxo-, (.alpha.R)- (9CI)
MF C14 H20 N6 O2

Absolute stereochemistry.



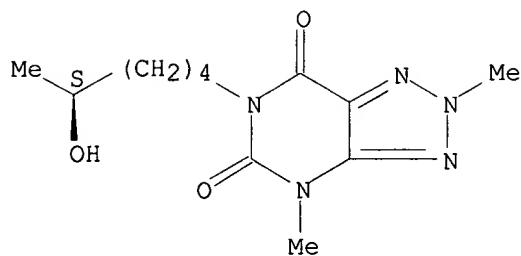
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetyloxy)hexyl]-8-bromo-3,7-dihydro-3-methyl-7-(phenylmethyl)- (9CI)
MF C21 H25 Br N4 O4

Absolute stereochemistry.



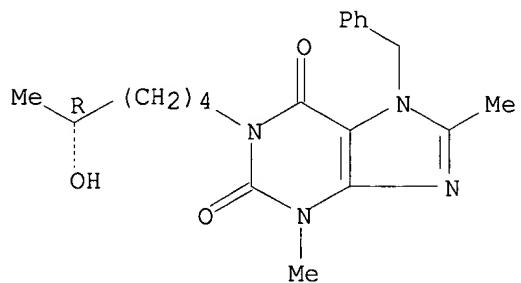
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 2H-1,2,3-Triazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 6-[(5S)-5-hydroxyhexyl]-2,4-dimethyl- (9CI)
MF C12 H19 N5 O3

Absolute stereochemistry.



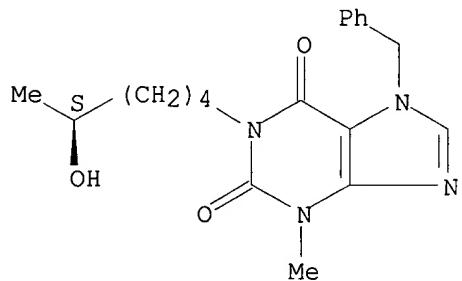
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3,8-dimethyl-7-(phenylmethyl)- (9CI)
MF C20 H26 N4 O3

Absolute stereochemistry.

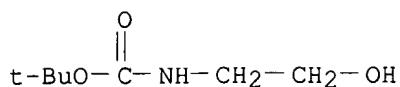


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-3-methyl-7-(phenylmethyl)- (9CI)
MF C19 H24 N4 O3

Absolute stereochemistry.

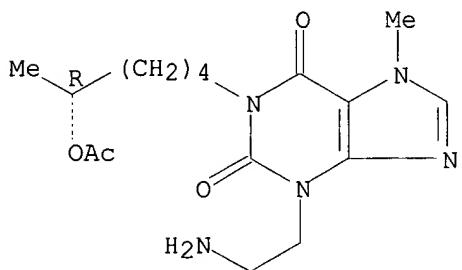


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Carbamic acid, (2-hydroxyethyl)-, 1,1-dimethylethyl ester (9CI)
MF C7 H15 N O3

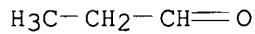


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetyloxy)hexyl]-3-(2-aminoethyl)-3,7-dihydro-7-methyl- (9CI)
 MF C16 H25 N5 O4

Absolute stereochemistry.

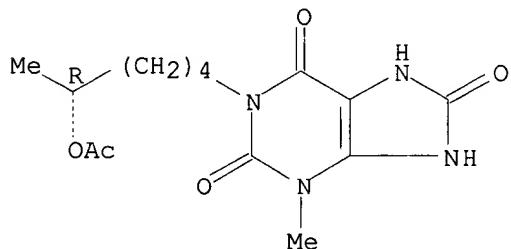


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Propanal (9CI)
 MF C3 H6 O
 CI COM



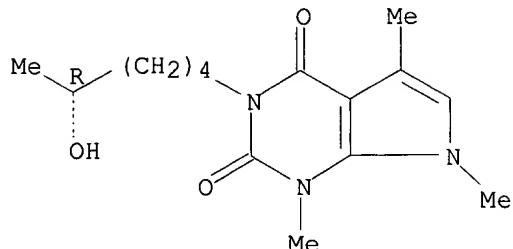
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6,8(3H)-trione, 1-[(5R)-5-(acetyloxy)hexyl]-7,9-dihydro-3-methyl- (9CI)
 MF C14 H20 N4 O5

Absolute stereochemistry.



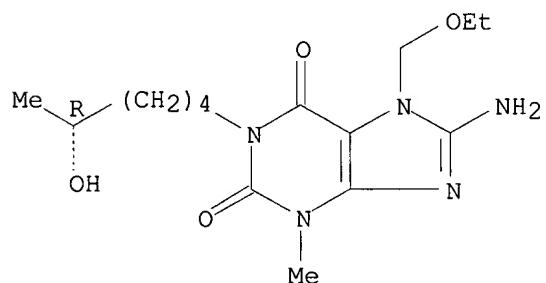
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Pyrrolo[2,3-d]pyrimidine-2,4(3H,7H)-dione, 3-[(5R)-5-hydroxyhexyl]-1,5,7-trimethyl- (9CI)
 MF C15 H23 N3 O3

Absolute stereochemistry.



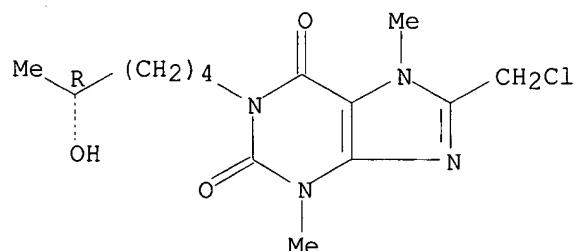
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 8-amino-7-(ethoxymethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl- (9CI)
MF C15 H25 N5 O4

Absolute stereochemistry.

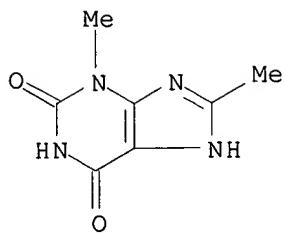


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione,
8-(chloromethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-
3,7-dimethyl- (9CI)
MF C14 H21 Cl N4 O3

Absolute stereochemistry.

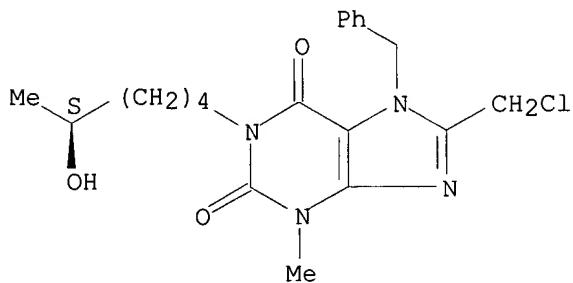


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-3,8-dimethyl- (9CI)
MF C7 H8 N4 O2
CI COM

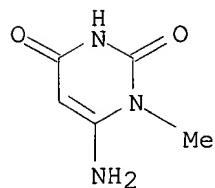


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione,
8-(chloromethyl)-3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-
3-methyl-7-(phenylmethyl)- (9CI)
MF C20 H25 Cl N4 O3

Absolute stereochemistry.

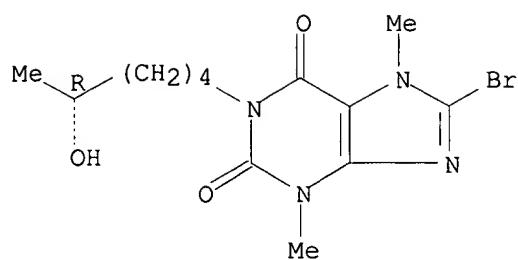


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 2,4(1H,3H)-Pyrimidinedione, 6-amino-1-methyl- (9CI)
MF C5 H7 N3 O2
CI COM



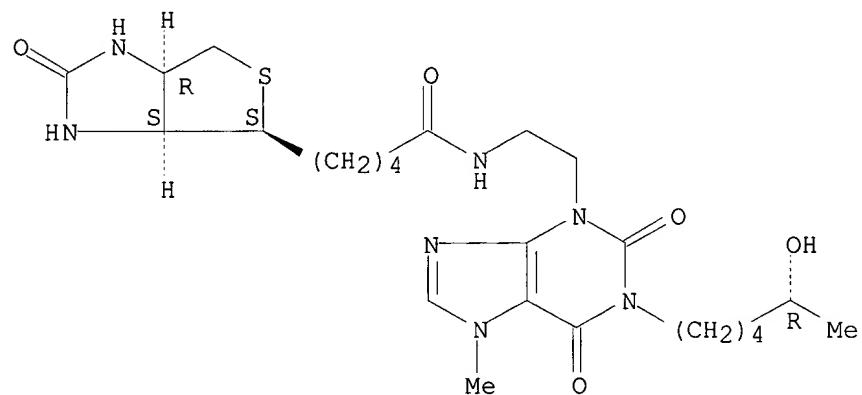
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 8-bromo-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3,7-
dimethyl- (9CI)
MF C13 H19 Br N4 O3

Absolute stereochemistry.



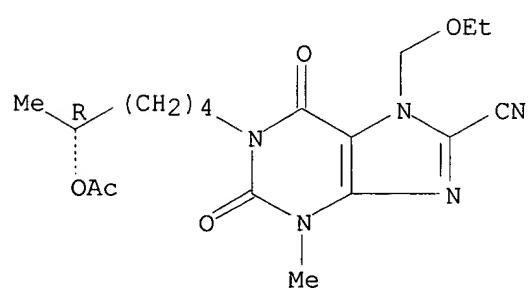
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Thieno[3,4-d]imidazole-4-pentanamide, hexahydro-2-oxo-N-[2-[1,2,6,7-tetrahydro-1-[(5R)-5-hydroxyhexyl]-7-methyl-2,6-dioxo-3H-purin-3-yl]ethyl]-, (3aS,4S,6aR)-(9CI)
MF C24 H37 N7 O5 S

Absolute stereochemistry.



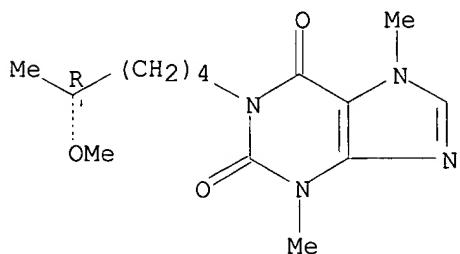
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-8-carbonitrile, 1-[(5R)-5-(acetoxy)hexyl]-7-(ethoxymethyl)-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo- (9CI)
MF C18 H25 N5 O5

Absolute stereochemistry.



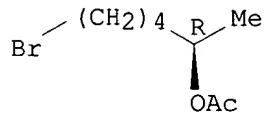
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-methoxyhexyl]-3,7-dimethyl-
(9CI)
MF C14 H22 N4 O3

Absolute stereochemistry.



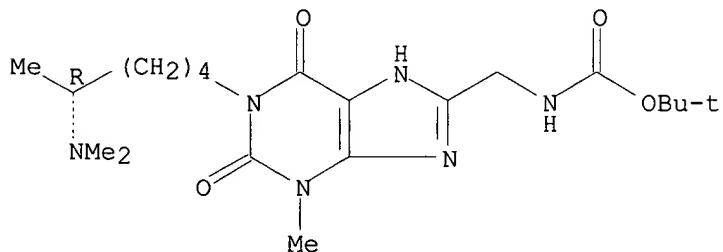
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 2-Hexanol, 6-bromo-, acetate, (2R)- (9CI)
MF C8 H15 Br O2

Absolute stereochemistry.

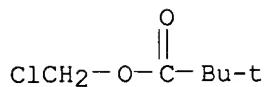


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Carbamic acid, [[1-[(5R)-5-(dimethylamino)hexyl]-2,3,6,7-tetrahydro-3-
methyl-2,6-dioxo-1H-purin-8-yl]methyl]-, 1,1-dimethylethyl ester (9CI)
MF C20 H34 N6 O4

Absolute stereochemistry.

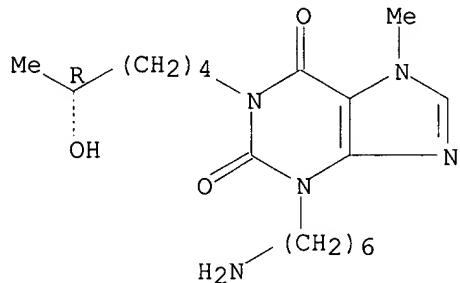


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Propanoic acid, 2,2-dimethyl-, chloromethyl ester (9CI)
MF C6 H11 Cl O2

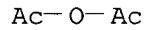


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione,
 3-(6-aminohexyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-
 7-methyl- (9CI)
 MF C18 H31 N5 O3
 CI COM

Absolute stereochemistry.

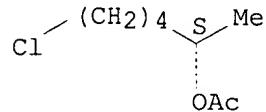


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Acetic acid, anhydride (9CI)
 MF C4 H6 O3
 CI COM



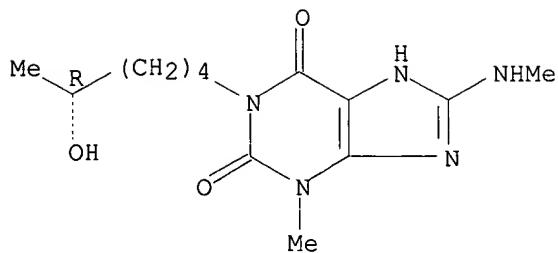
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2-Hexanol, 6-chloro-, acetate, (2S)- (9CI)
 MF C8 H15 Cl O2

Absolute stereochemistry.



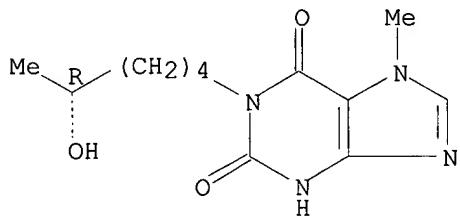
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl-8-
 (methylamino)- (9CI)
 MF C13 H21 N5 O3

Absolute stereochemistry.



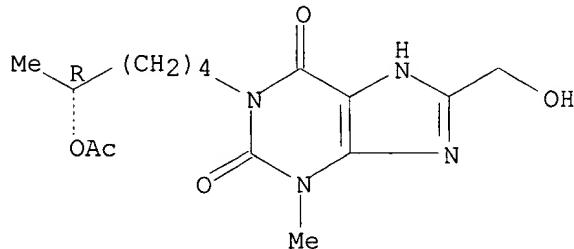
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[{(5R)-5-hydroxyhexyl}]-7-methyl- (9CI)
MF C12 H18 N4 O3

Absolute stereochemistry.

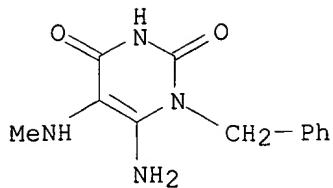


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetoxy)hexyl]-3,7-dihydro-8-(hydroxymethyl)-3-methyl- (9CI)
MF C15 H22 N4 O5

Absolute stereochemistry.

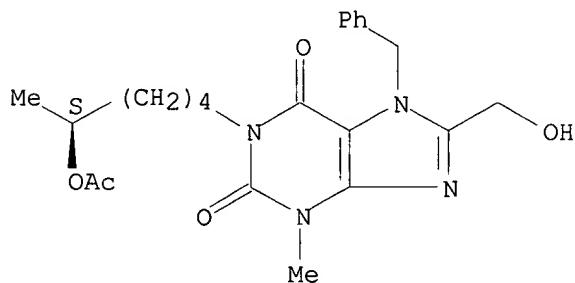


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 2,4(1H,3H)-Pyrimidinedione, 6-amino-5-(methylamino)-1-(phenylmethyl)- (9CI)
MF C12 H14 N4 O2

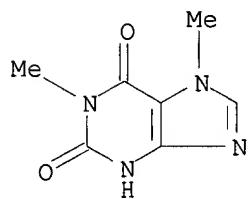


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 1-[(5S)-5-(acetyloxy)hexyl]-3,7-dihydro-8-(hydroxymethyl)-3-methyl-7-(phenylmethyl)- (9CI)
 MF C22 H28 N4 O5

Absolute stereochemistry.

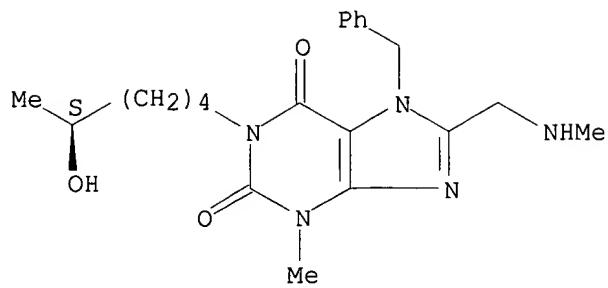


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 3,7-dihydro-1,7-dimethyl- (9CI)
 MF C7 H8 N4 O2
 CI COM



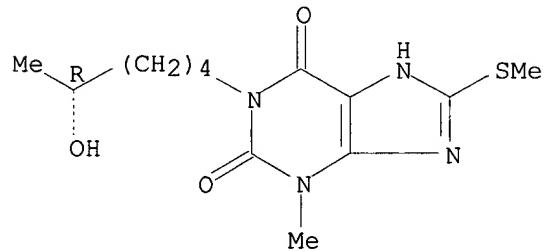
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-3-methyl-8-[(methylamino)methyl]-7-(phenylmethyl)- (9CI)
 MF C21 H29 N5 O3

Absolute stereochemistry.

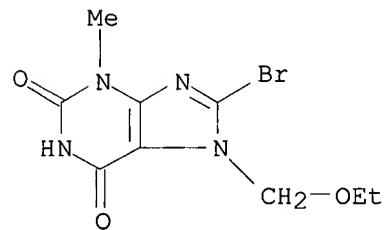


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[{(5R)-5-hydroxyhexyl}]-3-methyl-8-(methylthio)- (9CI)
MF C13 H20 N4 O3 S

Absolute stereochemistry.

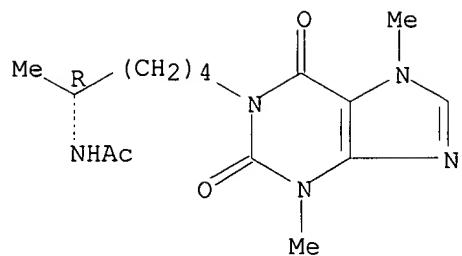


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 8-bromo-7-(ethoxymethyl)-3,7-dihydro-3-methyl- (9CI)
MF C9 H11 Br N4 O3

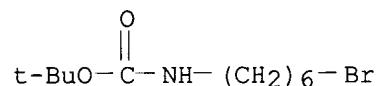


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Acetamide, N-[(1R)-1-methyl-5-(2,3,6,7-tetrahydro-3,7-dimethyl-2,6-dioxo-1H-purin-1-yl)pentyl]- (9CI)
MF C15 H23 N5 O3

Absolute stereochemistry.

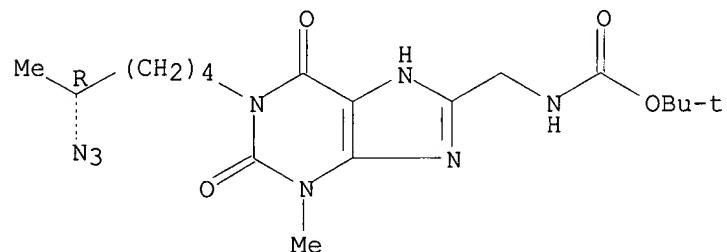


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Carbamic acid, (6-bromohexyl)-, 1,1-dimethylethyl ester (9CI)
 MF C11 H22 Br N O2

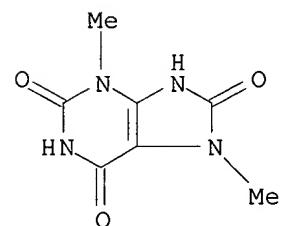


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Carbamic acid, [[1-[{(5R)-5-azidohexyl}-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-8-yl]methyl]-, 1,1-dimethylethyl ester (9CI)
 MF C18 H28 N8 O4

Absolute stereochemistry.



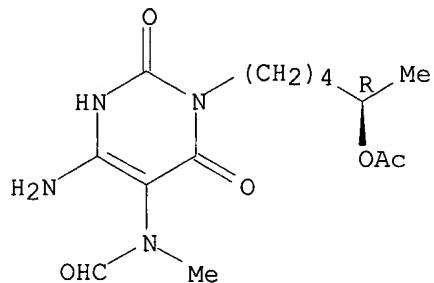
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6,8(3H)-trione, 7,9-dihydro-3,7-dimethyl- (9CI)
 MF C7 H8 N4 O3



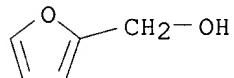
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS

IN Formamide, N-[3-[(5R)-5-(acetyloxy)hexyl]-6-amino-1,2,3,4-tetrahydro-2,4-dioxo-5-pyrimidinyl]-N-methyl- (9CI)
MF C14 H22 N4 O5

Absolute stereochemistry.

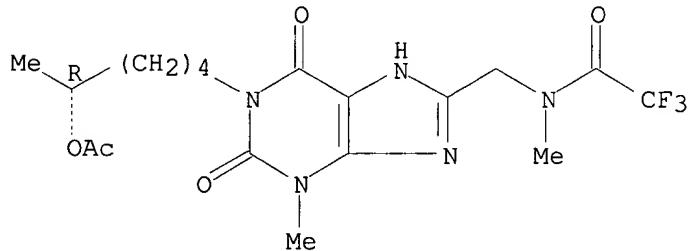


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 2-Furanmethanol (9CI)
MF C5 H6 O2
CI COM



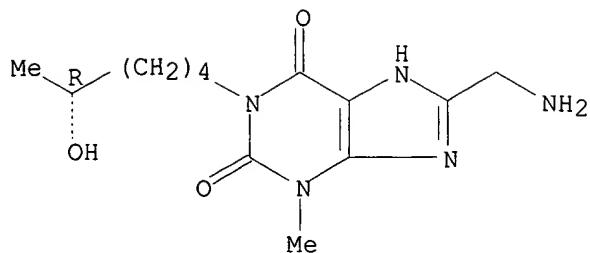
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Acetamide,
N-[[1-[(5R)-5-(acetyloxy)hexyl]-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-8-yl]methyl]-2,2,2-trifluoro-N-methyl- (9CI)
MF C18 H24 F3 N5 O5

Absolute stereochemistry.



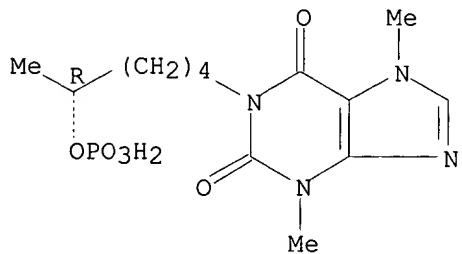
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione,
8-(aminomethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl- (9CI)
MF C13 H21 N5 O3

Absolute stereochemistry.



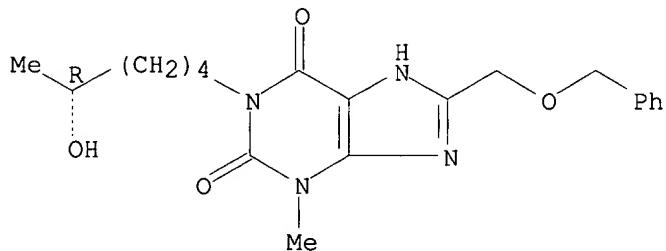
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-[(5R)-5-(phosphonoxy)hexyl]- (9CI)
MF C13 H21 N4 O6 P

Absolute stereochemistry.

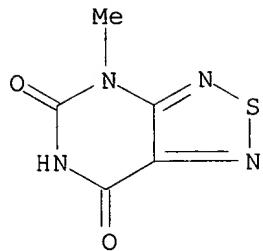


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl-8-[(phenylmethoxy)methyl]- (9CI)
MF C20 H26 N4 O4

Absolute stereochemistry.



L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN [1,2,5]Thiadiazolo[3,4-d]pyrimidine-5,7(4H,6H)-dione, 4-methyl- (6CI, 7CI, 9CI)
MF C5 H4 N4 O2 S

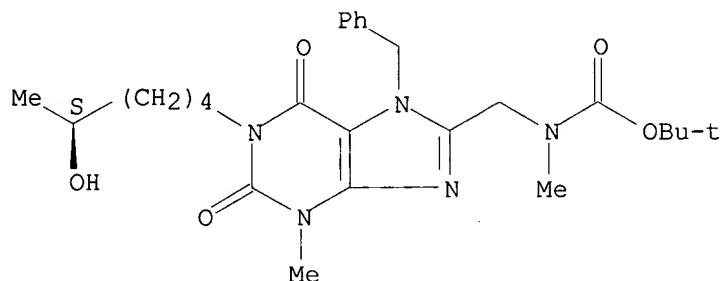


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS

IN Carbamic acid,
methyl[[2,3,6,7-tetrahydro-1-[*(5S)*-5-hydroxyhexyl]-3-methyl-
2,6-dioxo-7-(phenylmethyl)-1*H*-purin-8-ylmethyl]-, 1,1-dimethylethyl
ester
(9CI)

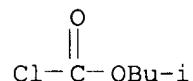
MF C26 H37 N5 O5

Absolute stereochemistry.



L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS

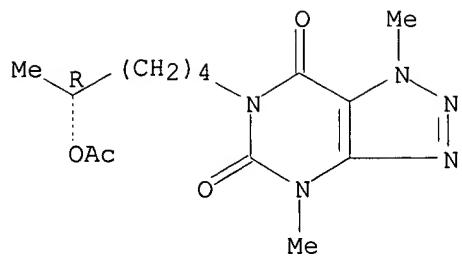
IN Carbonochloridic acid, 2-methylpropyl ester (9CI)
MF C5 H9 Cl O2



L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS

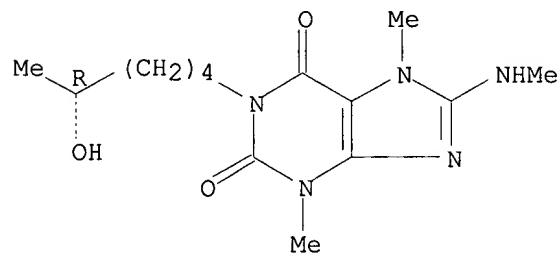
IN 1*H*-1,2,3-Triazolo[4,5-d]pyrimidine-5,7(4*H*,6*H*)-dione, 6-[*(5R)*-5-
(acetyloxy)hexyl]-1,4-dimethyl- (9CI)
MF C14 H21 N5 O4

Absolute stereochemistry.

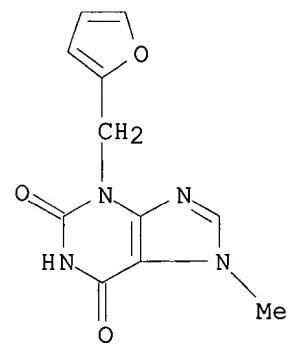


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3,7-dimethyl-8-(methylamino)- (9CI)
MF C14 H23 N5 O3

Absolute stereochemistry.

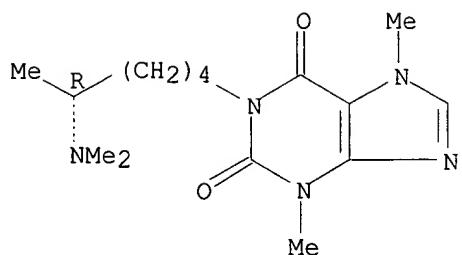


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3-(2-furanylmethyl)-3,7-dihydro-7-methyl- (9CI)
MF C11 H10 N4 O3



L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 1-[(5R)-5-(dimethylamino)hexyl]-3,7-dihydro-3,7-dimethyl- (9CI)
MF C15 H25 N5 O2

Absolute stereochemistry.



L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Oxirane, polymer with diethenylbenzene and ethenylbenzene, graft (9CI)
 MF (C₁₀ H₁₀ . C₈ H₈ . C₂ H₄ O)x
 CI PMS, COM

CM 1



2 [D1—CH=CH₂]

CM 2

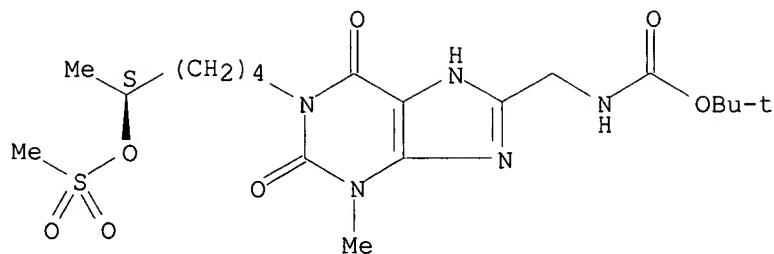
H₂C=CH—Ph

CM 3

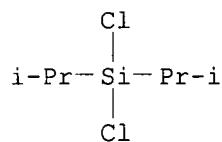


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Carbamic acid, [(2,3,6,7-tetrahydro-3-methyl-1-(5S)-5-[(methylsulfonyl)oxy]hexyl]-2,6-dioxo-1H-purin-8-yl)methyl]-, 1,1-dimethylethyl ester (9CI)
 MF C₁₉ H₃₁ N₅ O₇ S

Absolute stereochemistry.

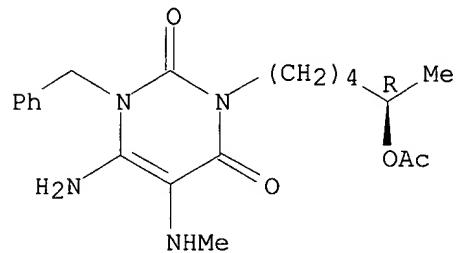


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Silane, dichlorobis(1-methylethyl)- (9CI)
 MF C6 H14 Cl2 Si
 CI COM



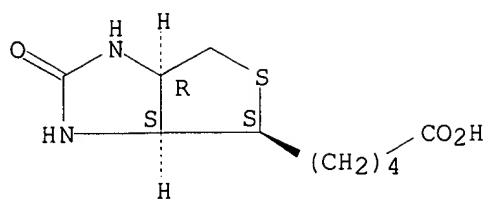
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2,4(1H,3H)-Pyrimidinedione, 3-[(5R)-5-(acetyloxy)hexyl]-6-amino-5-(methylamino)-1-(phenylmethyl)- (9CI)
 MF C20 H28 N4 O4

Absolute stereochemistry.



L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Thieno[3,4-d]imidazole-4-pentanoic acid, hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI)
 MF C10 H16 N2 O3 S
 CI COM

Absolute stereochemistry. Rotation (+).



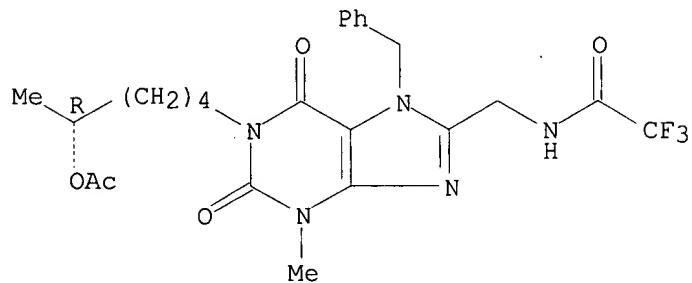
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS

IN Acetamide,

N-[(1-[(5R)-5-(acetyloxy)hexyl]-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-7-(phenylmethyl)-1H-purin-8-yl)methyl]-2,2,2-trifluoro- (9CI)

MF C24 H28 F3 N5 O5

Absolute stereochemistry.

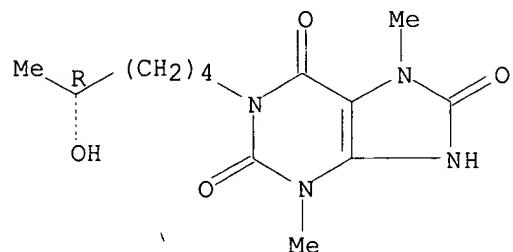


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS

IN 1H-Purine-2,6,8(3H)-trione, 7,9-dihydro-1-[(5R)-5-hydroxyhexyl]-3,7-dimethyl- (9CI)

MF C13 H20 N4 O4

Absolute stereochemistry.



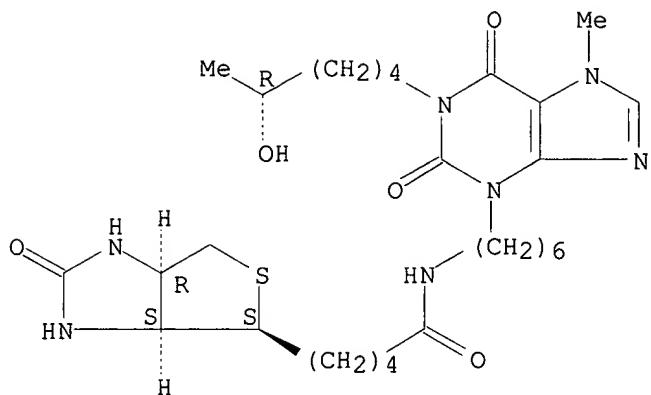
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS

IN 1H-Thieno[3,4-d]imidazole-4-pentanamide, hexahydro-2-oxo-N-[6-[1,2,6,7-

tetrahydro-1-[(5R)-5-hydroxyhexyl]-7-methyl-2,6-dioxo-3H-purin-3-yl]hexyl]-, (3aS,4S,6aR)- (9CI)

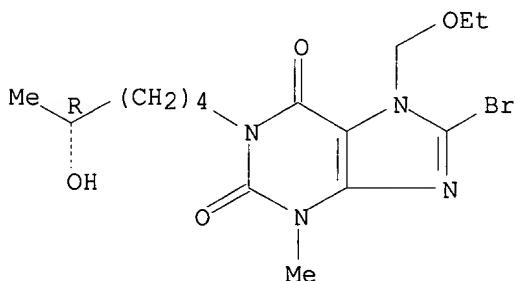
MF C28 H45 N7 O5 S

Absolute stereochemistry.

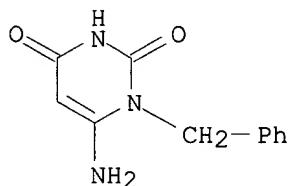


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 8-bromo-7-(ethoxymethyl)-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl- (9CI)
MF C15 H23 Br N4 O4

Absolute stereochemistry.

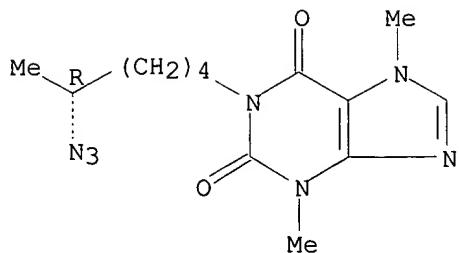


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 2,4(1H,3H)-Pyrimidinedione, 6-amino-1-(phenylmethyl)- (9CI)
MF C11 H11 N3 O2

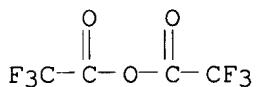


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 1-[(5R)-5-azidohexyl]-3,7-dihydro-3,7-dimethyl- (9CI)
MF C13 H19 N7 O2

Absolute stereochemistry.

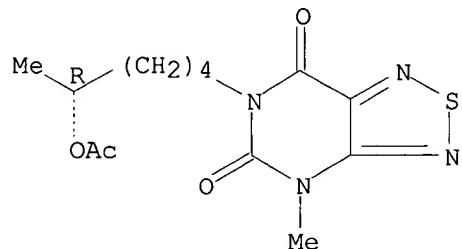


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Acetic acid, trifluoro-, anhydride (6CI, 8CI, 9CI)
 MF C4 F6 O3
 CI COM



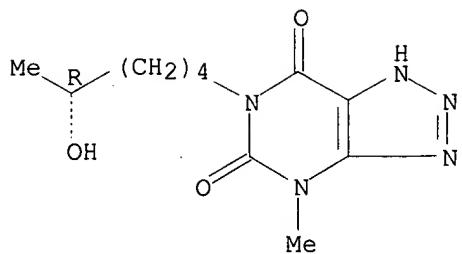
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN [1,2,5]Thiadiazolo[3,4-d]pyrimidine-5,7(4H,6H)-dione, 6-[(5R)-5-(acetyloxy)hexyl]-4-methyl- (9CI)
 MF C13 H18 N4 O4 S

Absolute stereochemistry.

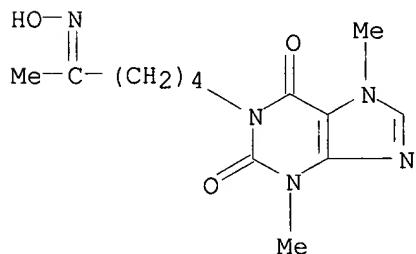


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-1,2,3-Triazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 6-[(5R)-5-hydroxyhexyl]-4-methyl- (9CI)
 MF C11 H17 N5 O3

Absolute stereochemistry.

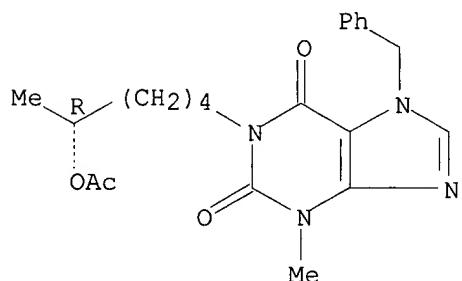


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[5-(hydroxyimino)hexyl]-3,7-dimethyl-
 (9CI)
 MF C13 H19 N5 O3



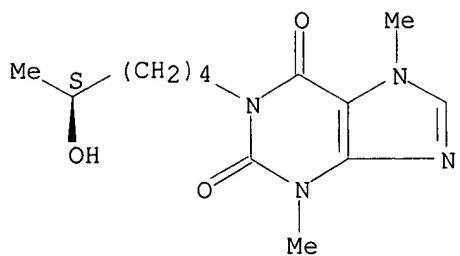
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetyloxy)hexyl]-3,7-dihydro-3-methyl-7-(phenylmethyl)- (9CI)
 MF C21 H26 N4 O4

Absolute stereochemistry.



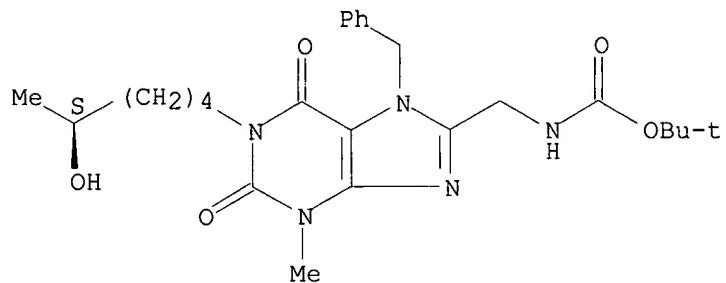
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-3,7-dimethyl-
 (9CI)
 MF C13 H20 N4 O3

Absolute stereochemistry.

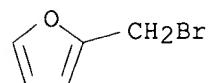


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Carbamic acid, [(2,3,6,7-tetrahydro-1-[(5S)-5-hydroxyhexyl]-3-methyl-2,6-dioxo-7-(phenylmethyl)-1H-purin-8-yl)methyl]-, 1,1-dimethylethyl ester (9CI)
MF C25 H35 N5 O5

Absolute stereochemistry.

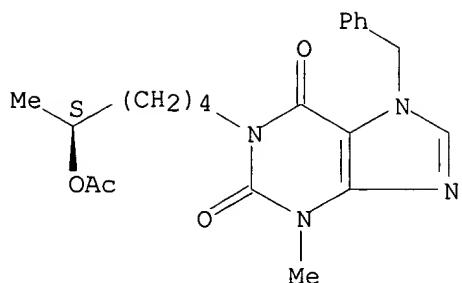


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Furan, 2-(bromomethyl)- (8CI, 9CI)
MF C5 H5 Br O



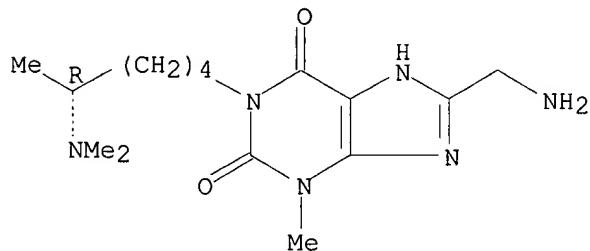
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 1-[(5S)-5-(acetyloxy)hexyl]-3,7-dihydro-3-methyl-7-(phenylmethyl)- (9CI)
MF C21 H26 N4 O4

Absolute stereochemistry.



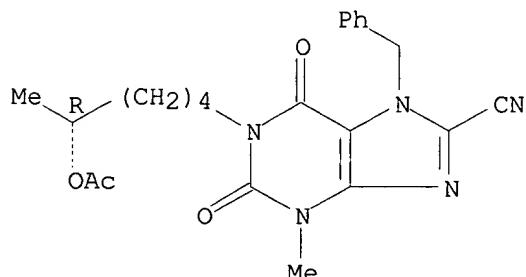
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 8-(aminomethyl)-1-[(5R)-5-(dimethylamino)hexyl]-3,7-dihydro-3-methyl- (9CI)
MF C15 H26 N6 O2

Absolute stereochemistry.

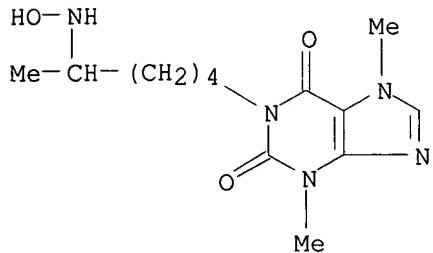


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-8-carbonitrile,
1-[(5R)-5-(acetoxy)hexyl]-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-7-(phenylmethyl)- (9CI)
MF C22 H25 N5 O4

Absolute stereochemistry.

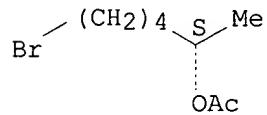


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[5-(hydroxyamino)hexyl]-3,7-dimethyl- (9CI)
MF C13 H21 N5 O3



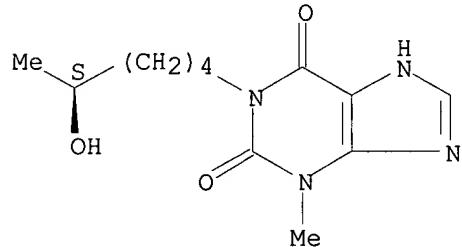
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2-Hexanol, 6-bromo-, acetate, (2S)- (9CI)
 MF C8 H15 Br O2

Absolute stereochemistry.

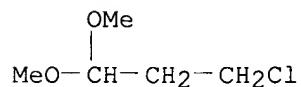


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-3-methyl- (9CI)
 MF C12 H18 N4 O3

Absolute stereochemistry.

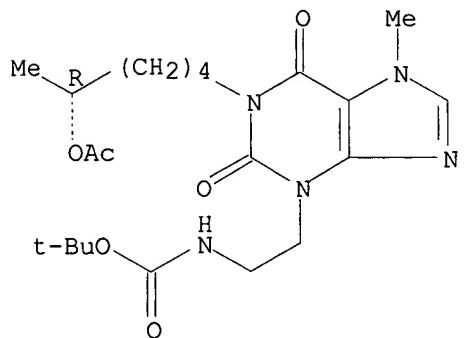


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Propane, 3-chloro-1,1-dimethoxy- (9CI)
 MF C5 H11 Cl O2

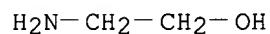


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Carbamic acid,
 [2-[1-[(5R)-5-(acetoxy)hexyl]-1,2,6,7-tetrahydro-7-methyl-
 2,6-dioxo-3H-purin-3-yl]ethyl]-, 1,1-dimethylethyl ester (9CI)
 MF C21 H33 N5 O6

Absolute stereochemistry.

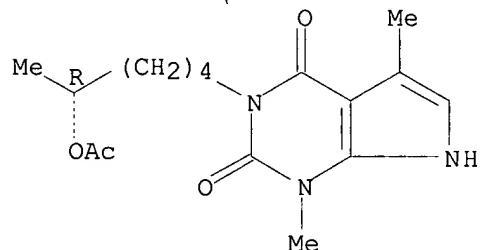


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Ethanol, 2-amino- (8CI, 9CI)
MF C₂ H₇ N O
CI COM



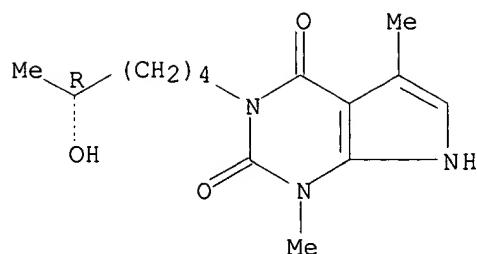
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Pyrrolo[2,3-d]pyrimidine-2,4(3H)-dione,
3-[(5R)-5-(acetyloxy)hexyl]-1,7-
dihydro-1,5-dimethyl- (9CI)
MF C₁₆ H₂₃ N₃ O₄

Absolute stereochemistry.



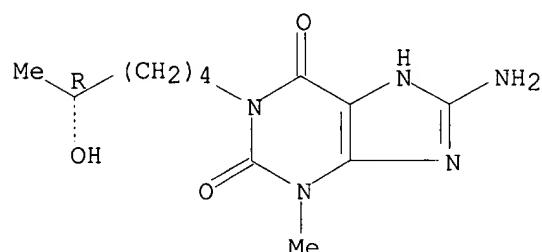
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Pyrrolo[2,3-d]pyrimidine-2,4(3H,7H)-dione,
3-[(5R)-5-hydroxyhexyl]-1,5-
dimethyl- (9CI)
MF C₁₄ H₂₁ N₃ O₃

Absolute stereochemistry.



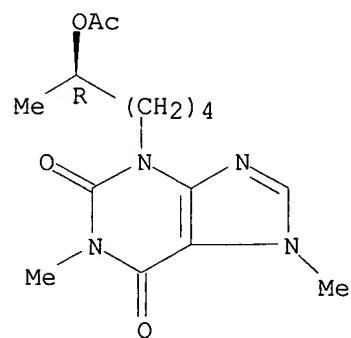
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione,
 8-amino-3,7-dihydro-1-[(5R)-5-hydroxyhexyl]-3-methyl-
 (9CI)
 MF C12 H19 N5 O3

Absolute stereochemistry.



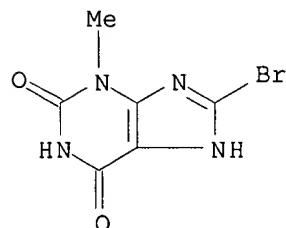
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione,
 3-[(5R)-5-(acetoxy)hexyl]-3,7-dihydro-1,7-dimethyl-
 (9CI)
 MF C15 H22 N4 O4

Absolute stereochemistry.



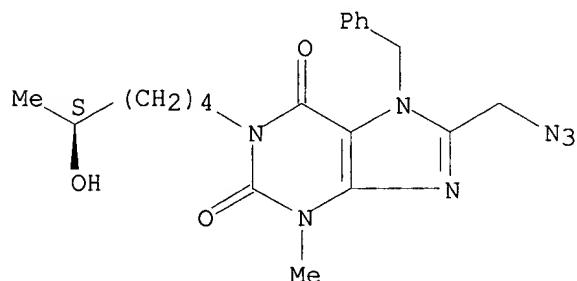
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS

IN 1H-Purine-2,6-dione, 8-bromo-3,7-dihydro-3-methyl- (9CI)
MF C6 H5 Br N4 O2
CI COM



L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione,
8-(azidomethyl)-3,7-dihydro-1-[(5S)-5-hydroxyhexyl]-3-
methyl-7-(phenylmethyl)- (9CI)
MF C20 H25 N7 O3

Absolute stereochemistry.

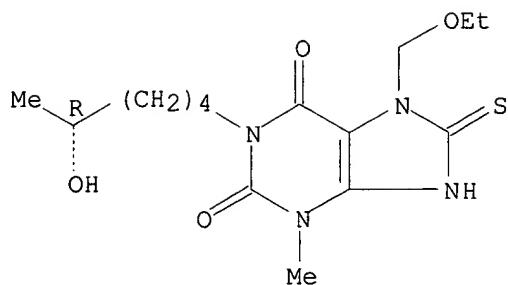


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Ethane, (chloromethoxy)- (9CI)
MF C3 H7 Cl O
CI COM

H₃C—CH₂—O—CH₂—Cl

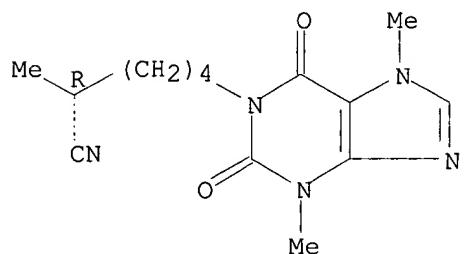
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 7-(ethoxymethyl)-3,7,8,9-tetrahydro-1-[(5R)-5-
hydroxyhexyl]-3-methyl-8-thioxo- (9CI)
MF C15 H24 N4 O4 S

Absolute stereochemistry.



L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-1-hexanenitrile, 2,3,6,7-tetrahydro-.alpha.,3,7-trimethyl-2,6-dioxo-, (.alpha.R)- (9CI)
MF C14 H19 N5 O2

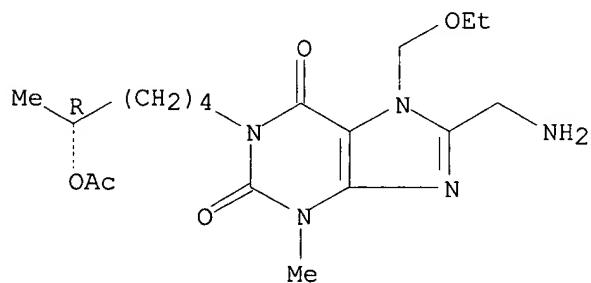
Absolute stereochemistry.



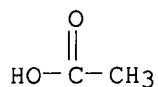
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Purine-2,6-dione, 1-[(5R)-5-(acetyloxy)hexyl]-8-(aminomethyl)-7-(ethoxymethyl)-3,7-dihydro-3-methyl-, monoacetate (9CI)
MF C18 H29 N5 O5 . C2 H4 O2

CM 1

Absolute stereochemistry.

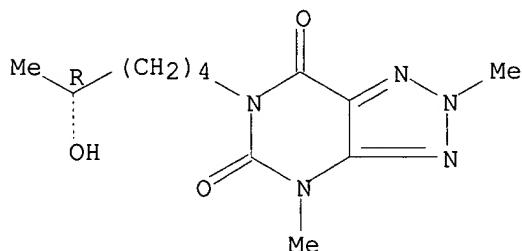


CM 2



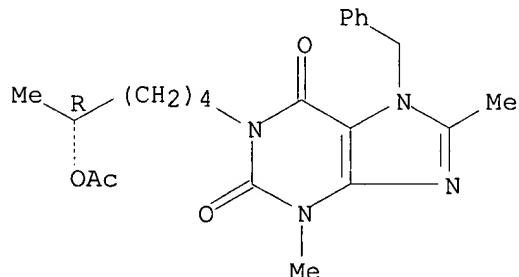
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2H-1,2,3-Triazolo[4,5-d]pyrimidine-5,7(4H,6H)-dione, 6-[(5R)-5-hydroxyhexyl]-2,4-dimethyl- (9CI)
 MF C12 H19 N5 O3

Absolute stereochemistry.



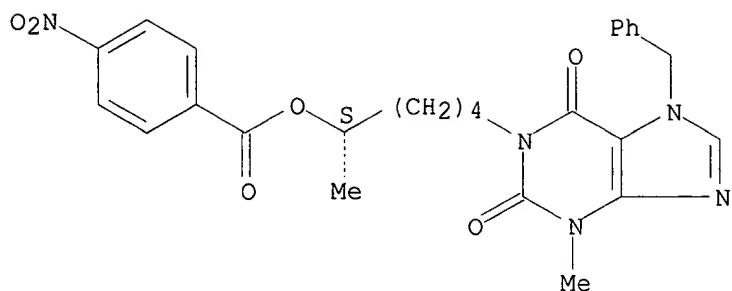
L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione,
 1-[(5R)-5-(acetyloxy)hexyl]-3,7-dihydro-3,8-dimethyl-
 7-(phenylmethyl)- (9CI)
 MF C22 H28 N4 O4

Absolute stereochemistry.

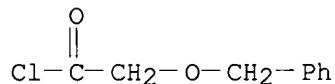


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Purine-2,6-dione, 3,7-dihydro-3-methyl-1-[(5S)-5-[(4-nitrobenzoyl)oxy]hexyl]-7-(phenylmethyl)- (9CI)
 MF C26 H27 N5 O6

Absolute stereochemistry.

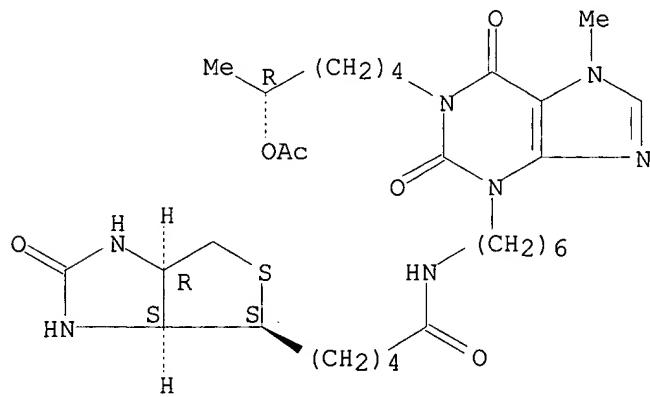


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Acetyl chloride, (phenylmethoxy)- (9CI)
 MF C9 H9 Cl O2
 CI COM

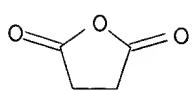


L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Thieno[3,4-d]imidazole-4-pentanamide,
 N-[6-[(5R)-5-(acetyloxy)hexyl]-
 1,2,6,7-tetrahydro-7-methyl-2,6-dioxo-3H-purin-3-yl]hexahydro-2-oxo-,
 (3aS,4S,6aR)- (9CI)
 MF C30 H47 N7 O6 S

Absolute stereochemistry.



L16 158 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2,5-Furandione, dihydro- (9CI)
 MF C4 H4 O3
 CI COM



ALL ANSWERS HAVE BEEN SCANNED